

NCBiotech Company Directory



August 2014



**North Carolina
Biotechnology Center**

ncbiotech.org/directory

NCBiotech Company Directory 2014



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Photo (above) Jeff Wolf, CEO of the Durham cancer therapy company Heat Biologics, celebrates Heat's \$25M IPO on the NASDAQ with family and friends last July. Wolf moved Heat from Miami into temporary quarters at NCBiotech in 2011. Then NCBiotech awarded Heat a \$225,000 loan and \$3,000 for an intern. NCBiotech professionals worked closely with Wolf to help hone his pitch to investors. He raised \$5 million while joining in NCBiotech-led visits to venture capital investment firms in Palo Alto and Boston. Now, Heat has two promising cancer therapies in clinical trials.

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NCBiotech's Regional Offices



Advantage North Carolina

North Carolina's 600+ companies enjoy outstanding quality of life in addition to:

- Workforce Training
- Collaborative Community
- Low Business Costs

Top Regional Biotechnology Assets

EASTERN

Regional Office: Greenville
Phone: 252-328-9981

Sector Strengths:

- Ag Biotech
- Functional Biofuels
- Marine Biotech

ncbiotech.org/east

PIEDMONT TRIAD

Regional Office: Winston-Salem
Phone: 252-725-6672

Sector Strengths:

- Regenerative Medicine
- Nanobiotechnology
- Medical Devices

ncbiotech.org/triad

SOUTHEASTERN

Regional Office: Wilmington
Phone: 910-763-5747

Sector Strengths:

- Marine Biotech
- Contract Research
- Pharmaceuticals and Nutraceuticals

ncbiotech.org/southeast

GREATER CHARLOTTE

Regional Office: Charlotte
Phone: 704-687-8563

Sector Strengths:

- Bioinformatics
- Health and Nutrition
- Biomedical Technologies

ncbiotech.org/charlotte

RESEARCH TRIANGLE PARK

Headquarters: Research Triangle Park
Phone: 919-541-9366

Sector Strengths:

- Biomanufacturing
- Contract Research
- Ag Biotech

ncbiotech.org

WESTERN

Regional Office: Asheville
Phone: 828-290-1431

Sector Strengths:

- Medical Devices
- Natural Products
- Fermentation

ncbiotech.org/west

Cover Photos (back and front cover left to right):

NCSU, Wake Forest University/Ken Bennett, BTEC/NCSU, DSM, Novocor, Bayer CropScience AG

Companies 1 – Al

13C Molecular Inc. (*Fayetteville*) provides stable-isotope labeled and native compounds to the pharmaceutical and biomedical industries via custom organic synthesis and sourcing through a consortium of manufacturers.

www.13cmolecular.com

4D Biotech Inc. (*Raleigh*) develops biological microarray instrumentation.

www.4dbiotech.com

AAIPharma Services Corp. (*Wilmington and Durham*) provides drug product development services such as formulation development, analytical chemistry and manufacturing. The company's solid-dose manufacturing facility provides clinical and commercial supplies on contract.

www.aaipharma.com

AbD Serotec, A Bio-Rad Company (*Raleigh*) designs, manufactures and sells immunological and cell biology reagents for research, and provides antibody services.

www.abdserotec.com

AccuGenomics Inc. (*Wilmington*) develops gene expression tests to diagnose and monitor cancer treatment.

www.accugenomics.com

Ace Bio-PharmTech LLC (*High Point*) uses asymmetric synthesis technologies to develop R&D processes, formulations of branded and generic pharmaceuticals, and active pharmaceutical ingredients.

www.acebiopharm.com

Achelios Therapeutics Inc. (*Chapel Hill*) develops therapeutics for the treatment of migraine and peripheral pain.

www.achelios.com

ACRIS Pharmaceuticals LLC (*Chapel Hill*) develops and commercializes unique early stage compounds.

www.acrispharma.com

Actavis U.S. (*Lincolnton*) manufactures OTC and prescription hydrocortisone, anti-fungal, and permethrin products as creams, ointments, liquids, and suppositories.

www.actavis.us

Adherex Technologies Inc. (*Research Triangle Park*) develops cancer therapeutics. Its lead product under development is Eniluracil, an oral dihydropyrimidine dehydrogenase inhibitor to improve the tolerability and effectiveness of oncology drugs.

www.adherex.com

Adhezion Biomedical LLC (*Hudson*) develops and produces cyanoacrylate-based medical adhesive, wound care and microbial barrier products for connective tissue (human skin). The company's manufacturing and research facility is located in Hudson, NC.

www.adhezion.com

Adroit Pharmaceutical Development LLC (*Durham*) identifies new and improved formulations and process technologies. Its primary focus is on inhalation and dermatological product development.

www.adroitpharmdev.com

ADS Pharma Consulting LLC (*Apex*) provides drug development consulting services, including active pharmaceutical ingredient route development and manufacturing, analytics, formulation development, clinical batch manufacture and CMC regulatory affairs..

www.adspharma.net

Advanced Animal Diagnostics Inc. (*Durham*) develops and commercializes diagnostics to detect and manage disease states, reproductive, nutritional and overall health status of production animals. AAD's first product is a diagnostic test for mastitis in dairy cows.

www.advancedanimaldiagnostics.com

Advanced Liquid Logic, an Illumina Company, (*Morrisville*) uses digital microfluidics to develop molecular diagnostics, bioassays and life-science research tools.

www.liquid-logic.com

Advanced Tear Diagnostics LLC (*Raleigh*) develops and markets a point-of-care lab testing system designed to assist eye care physicians in detecting and quantifying biomarkers associated with external ocular disorders.

www.teardiagnosics.com

Aegis Women's Health Technologies Inc. (*Raleigh*) develops medical devices to help reduce recurrent urinary tract infections in women.

www.AegisWHT.com

Aerial Biopharma LLC (*Morrisville*) develops biologic and small-molecule central nervous system therapeutics, including treatments for narcolepsy and chronic pain.

www.aerialbio.com

Aerie Pharmaceuticals Inc. (*Research Triangle Park*) discovers, develops and commercializes first-in-class therapies for the treatment of patients with glaucoma.

www.aeriepharma.com

Aerocrine Inc. USA (*Morrisville*) designs and develops products to aid in diagnosis and control of respiratory disease.

www.aerocrine.com

Affinergy LLC (*Durham*) uses biotechnology methods to create application-specific coatings for orthopedic and cardiovascular medical devices. Affinergy discovers peptides that can capture, deliver and retain specific proteins, drugs or cells.

www.affinergy.com

AgBiome Inc. (*Research Triangle Park*) conducts discovery and early stage research using crop microbiome to identify products that reduce risk and improve yields.

www.agbiome.com

Agile Sciences Inc. (*Raleigh*) has identified small molecules that inhibit and disperse bacterial biofilms. The company is investigating applications in medicine, agriculture and industry.

www.agilesci.com

Ajinomoto North America (*Raleigh*) manufactures pharmaceutical-grade amino acids and custom-blended amino acid mixtures.

www.ajiaminoscience.com

Alaeras Inc. (*Cary*) designs and manufactures drug-delivery products. The company is developing a platform technology for dry-powder nasal vaccines that do not require refrigeration.

www.alaeras.com

Alderon BioSciences Inc. (*Beaufort*) develops point-of-care diagnostics.

Alera Labs LLC (*Durham*) provides contract research analytical chemistry, in vitro toxicology, GLP analysis, and preformulation services to pharmaceutical, biotech and medical device companies.

www.aleralabs.com

Algaen Corp. (*Winston-Salem*) is exploring microalgae to develop, produce and market products and technologies for the nutraceutical, pharmaceutical and bio-energy industries.

www.algaen.com

Alganomics LLC (*Southport*) is researching and developing algae-culturing systems to create bioproducts, including biofuels.

www.algaeresource.com

Algynomics Inc. (*Chapel Hill*) uses phenotyping and genomics to develop diagnostics and therapeutics for chronic pain and related conditions.

www.algynomics.com

Alion Science and Technology Inc. (*Durham*) provides toxicology research, animal husbandry, inhalation engineering and biochemistry services. Alion operates four bioscience research laboratories in the Triangle.

www.alionscience.com

Allere Laboratory LLC (*Cary*) provides next-generation genomic sequencing and diagnostic testing services.

www.allerelabs.com/about.php

Allergy Partners Extract Laboratory (*Asheville*) produces extracts that are used to treat allergic disease, asthma and immunology.

www.allergypartners.com

Almac Clinical Services (*Durham*) provides clinical trial material manufacturing, packaging and distribution services.

www.almacgroup.com/clinical-trial-supply

Almac Diagnostics (*Durham*) offers services for biomarker discovery, assay development and validation, and clinical biomarker testing for prospective and retrospective applications in clinical trials. Testing platforms include: NGS, Microarray, qPCR, IHC, ELISA.

www.almacgroup.com



ALP Life Sciences LLC (*Black Mountain*) is developing diagnostics and therapeutics for liver diseases and related inflammatory diseases.

www.alplifesciences.com

Alpax Pharmaceutical Corp. (*Morrisville*) is a contract manufacturer of cGMP level APIs, formulations and finished dosages. The company's R&D and manufacturing facilities are in China. The North American office is in Research Triangle Park.

www.alpaxpharma.com

AlphaVax Inc. (*Research Triangle Park*) develops vaccine technology with applications in infectious disease, cancer and biodefense threats.

www.alphavax.com

American Distillation Inc. (*Leland*) manufactures industrial-grade ethyl alcohol and offers contract manufacturing services such as distillation, dehydration, reaction, carbon treating and blending.

www.americandistillation.net

Andersen Products Inc. (*Haw River*) sells and services the Anprolene and EOGas lines of 100% ethylene oxide gas sterilizers. They also provide contract packaging and sterilization services for device manufacturers.

www.anpro.com

Andersen Scientific Inc. (*Morrisville*) provides ethylene oxide sterilization and validation services, including package testing, shelf life and accelerated aging. Andersen's sterilization cycles include microbiological and other testing.

www.ansci.us

Annias Immunotherapeutics Inc. (*Chapel Hill*) is developing a therapeutic vaccine for the treatment of malignant brain tumors.

Antech Diagnostics Inc. (*Morrisville*) provides clinical and veterinary hematology analysis, clinical chemistry, urinalysis and coagulation testing.

www.antechglp.com

Anuva Innovations Inc. (*Morrisville*) is an ISO13485-certified medical device design firm that provides documentation, software development, manufacturing, and testing services, with expertise in invasive and non-invasive drug delivery systems and biomedical monitoring devices.

www.anuvainnovations.com

Appealing Products Inc. (*Raleigh*) develops products for forensics and personal protection from toxic materials such as inorganics, gases and poisons in foods, animal feeds and liquids.

www.appealingproducts.com

Companies Ap – Ba

Applied Catheter Technologies Inc.

(Winston-Salem) develops drug-coated medical devices that inhibit scar formation. The company's first products under development are catheters for male urethral stricture and devices which inhibit abdominal adhesions.

www.appliedcatheter.com

Applied Micro Products Inc. (Chapel Hill)

manufactures wood preservation products such as AMP21, a natural carbon source encased in a time-release delivery system.

www.appliedmicroproducts.com

Aptiv Solutions (Durham) offers drug and medical device development services including preclinical, CMC and GxP compliance consultancy, regulatory services, adaptive clinical trials, pharmacovigilance, clinical staffing and other operational clinical support.

www.aptivsolutions.com

Arbovax Inc. (Raleigh) develops vaccines against arthropod-borne diseases. Arbovax's technology modifies arthropod-borne viruses (arboviruses) to prevent them from replicating in mammalian cells.

www.arbovax.com

Archer Daniels Midland Co. (Southport) makes citric acid and salts of citric acid used in soft drinks, food products and detergents. They also make yeast mannan as an animal feed ingredient.

www.adm.com

Ardeal Pharma Inc. (Brevard) is a virtual pharma company developing patented stabilized sulforaphane for the dermal pharmaceutical and cosmetic markets.

www.ardealpharma.com

Ardeal Research Institute (Brevard) is a non-profit organization that develops drug discovery capabilities of the natural resources in Western North Carolina. The institute has collaboration agreements in place with Brevard College and the NC Arboretum.

www.ardealresearchinstitute.org

Argos Therapeutics Inc. (Durham) develops immunotherapy treatments for cancer, HIV, and autoimmune disorders.

www.argostherapeutics.com

Aristos Pharmaceuticals Inc. (Cary)

provides generic medications throughout various therapeutic classes.

www.aristospharm.com

Array BioPharma Inc. (Morrisville) develops targeted, small-molecule drugs to treat cancer and inflammatory diseases.

www.arraybiopharma.com

ArrayXpress Inc. (Raleigh) applies bioinformatics to optimize bioprocesses, increase diagnostic efficiency and provide contract research services, focusing on next generation genomics.

www.arrayxpress.com

Arysta LifeScience North America LLC

(Cary) develops and manufactures crop protection products.

www.arysta-na.com

Ascleitis Inc. (Chapel Hill) discovers and develops treatments for cancer, HIV and HCV. The company is a joint venture between U.S. and Chinese entrepreneurs.

www.ascletis.com

Asinex (Winston-Salem) designs small-molecule libraries and provides lead optimization, custom synthesis and other chemistry services. The Winston-Salem location is the company's U.S. headquarters.

www.asinex.com

Asklepios Biopharmaceutical Inc. (Chapel Hill) develops protein- and cell-based therapies using a proprietary technology platform called Biological Nano Particles (BNP).

www.askbio.com

Aspir-Tek Inc. (Rocky Mount) makes Aquaprin, an FDA-approved water-soluble aspirin.

www.pharmstarinc.com

Asymchem Laboratories (Morrisville) provides contract chemical- and drug-manufacturing services. Asymchem's administrative headquarters is in North Carolina and its manufacturing plants are in China.

www.asymchem.com

ATEX Technologies Inc. (Pinebluff) designs, develops and manufactures medical textiles and component solutions for the medical industry.

www.atextechnologies.com

Attagene Inc. (Morrisville) has developed a pathway profiling technology to evaluate the impact of pharmaceuticals and environmental chemicals on over 100 transcription factors and 48 nuclear receptors.

www.attagene.com

Avertica Inc. (Research Triangle Park) develops compounds and polymers for electronic device applications, including the development of biomimetic and bio-based electronic materials.

www.averticainc.com

Avioq Inc. (Research Triangle Park) develops, manufactures and distributes diagnostic assays and equipment for the detection of infectious diseases. FDA approved products include screening and diagnostic assays for HIV-1 and HTLV-I/II.

www.avioq.com

Avoca Inc. (Merry Hill) develops and manufactures botanical extraction products, and provides extraction services. Avoca contracts with farmers to grow clary sage, and is now also processing krill oil for omega-3 fatty acids.

www.pharmachemlabs.com/divisions/avoca

b3bio Inc. (Research Triangle Park) develops RNA oligonucleotide-based drugs to treat cancer, inflammation and infection.

Banner Life Sciences (High Point) researches, develops and produces gelatin-based oral dosage pharmaceutical products.

www.bannerls.com

BaseTrace (Research Triangle Park) designs DNA-based tracers for environmental monitoring and information generation in the energy sector and beyond.

www.basetrace.com

BASF Corp. (Research Triangle Park) develops plant health products and seed treatments, and conducts plant biotechnology research with a focus on yield and quality traits in major crops. Business units in RTP include the crop protection and plant science groups.

www.basf.com/plantscience

Baxano Surgical Inc. (Raleigh) designs, develops and markets minimally invasive surgical technologies and devices to treat degenerative conditions of the spine.

www.baxanosurgical.com

Baxter Healthcare Corp. (Marion) produces intravenous and peritoneal dialysis solutions, as well as empty containers and component parts for other Baxter facilities.

www.baxter.com

Novozymes (the world's largest enzyme producer), GlaxoSmithKline and many other multinationals have their North American headquarters in North Carolina.

Bayer CropScience LP (Research Triangle Park, Morrisville and Clayton) uses the tools of plant biotechnology to develop seeds and products for crop protection and non-agricultural pest control. The company's R&D Innovation Center and BioAnalytics and Regulatory Affairs operations are in Morrisville. The Clayton site performs pesticide research, specifically in turfgrasses and ornamentals.

www.bayercropscience.us

BD Diagnostics (Burlington, Durham and Mebane) develops and commercializes molecular diagnostic products for various cancers, including cervical, breast, ovarian and prostate.

www.bd.com/tripath

BD Medical (Wilson) manufactures medical devices and injection- and infusion-based drug-delivery products.

www.bd.com

BD Technologies (Research Triangle Park) develops technologies for parenteral drug delivery, diabetes care, diagnostics and biosensors, and cell and tissue engineering. The RTP site is BD's Corporate Technology R&D center.

www.bd.com/technologies

Beeken BioMedical LLC (Raleigh) develops and commercializes hemostasis wound dressings and polymer-based liquid bandage products.

www.beekenbiomedical.com

Benanova Inc. (Raleigh) develops environmentally benign nanoparticles (EbNPs) made of natural materials, which can leverage the functional properties of bioactive agents.

www.benanova.com

Benson Hill Biosystems Inc. (Research Triangle Park) is an agricultural biotechnology company focused on the development of biotech-based traits to increase intrinsic crop yield.

www.bensonhillbio.com

Growing a healthier world, one harvest at a time.

Our task is simple, yet monumental. To provide enough food and fiber for the world, while protecting it at the same time. We believe that with the right combination of innovative science, tenacious problem solving and unshakable passion, we can do it. We will meet the needs of today while laying a foundation for a better tomorrow. And in doing so, we will not only grow a healthier world, we will make sure that abundance endures for us all. Learn more at www.BayerCropScience.us.



Bayer CropScience



FiberMax
option

Stoneville

Bayer CropScience LP, 2 TW Alexander Drive, Research Triangle Park, NC 27709. Always read and follow label instructions. Bayer, the Bayer Cross, Stoneville, and FiberMax are registered trademarks of Bayer. For additional product information, call toll-free 1-866-99-BAYER (1-866-992-2937) or visit our website at www.BayerCropScience.us.

Companies Be – Bi



Bent Creek Institute Inc. (*Asheville*) conserves and develops plant biodiversity assets and maintains the North Carolina Arboretum's Bent Creek Germplasm Repository. It also administers the U.S. Botanical Safety Laboratory, a consortium of university botanical research sites.

www.bentcreekinstitute.org

BestCo Inc. (*Mooresville*) manufactures confectionery-based dosage forms for non-prescription drug products and dietary supplements.

www.bestco.com

BHV Pharma Inc. (*Research Triangle Park*) develops therapeutics for metabolic disorders, including type 2 diabetes and NAFLD/NASH.

www.bhvpharma.com

Bio Products Laboratory USA Inc. (*Raleigh*) manufactures plasma-derived products such as Gammaplex. The Raleigh office is the US distributor for BPL's products.

www.gammaplex.com

BioAgilytix Labs Inc. (*Research Triangle Park*) provides bioanalytical testing services such as assay development, assay validation and sample analysis.

www.bioagilytix.com

BioCI Systems Inc. (*Raleigh*) provides sterilization validation services and other contract laboratory testing services.

www.bioci.com

Biocomposites Inc. (*Wilmington*) develops, manufactures and distributes synthetic tissue regeneration products. The Wilmington office is a sales office.

www.biocomposites.com

BioCryst Pharmaceuticals Inc. (*Durham*) designs and develops small-molecule pharmaceuticals that block key enzymes involved in infectious diseases, inflammatory diseases and cancer.

www.biocryst.com

BioCytics Inc. (*Huntersville*) researches and develops cellular therapies and personalized medicine technology to diagnose and treat cancer.

www.biocytics.com

BioDelivery Sciences International Inc. (*Raleigh*) develops drug delivery technologies in the areas of pain management and oncology supportive care.

www.bdsi.com

BioDeptronix LLC (*Chapel Hill*) is developing an exposure chamber instrument to sense and monitor toxic materials, such as chemicals and particulate matter in air streams, using changes in the metabolism and genome expression of living human cells.

www.quantaire.com

BioDyne Water Reclamation Inc. (*Raleigh*) engineers and provides water reclamation systems using biotreatment with its patented IBAC single vessel full-treatment systems.

www.biodynegroup.com

Biofluidica Inc. (*Chapel Hill*) is developing a molecular assay system to detect circulating tumor cells (CTCs) in cancer patients.

www.biofluidica.com

BioGaia Biologics Inc. (*Raleigh*) develops and sells probiotic products.

www.biogaia.com

Biogen Idec (*Research Triangle Park*) discovers, develops and manufactures innovative therapies for neurodegenerative diseases, hemophilia and autoimmune disorders. It operates biologics and oral solid dose manufacturing facilities and a patient services contact center in RTP.

www.biogenidec.com

BioKier Inc. (*Chapel Hill*) develops proprietary drugs for diabetes and related disorders. BioKier has identified a therapeutic opportunity based on gastric bypass surgery and is developing a novel treatment for diabetes.

www.biokier.com

BioLeap LLC (*Chapel Hill*) provides drug-discovery and -design services using computational fragment-based drug-design technology.

www.bioleap.com

BioLink Life Sciences Inc. (*Cary*) provides contract product development support through custom synthesis and testing.

www.biolinkonline.com

Biological Applied Research Inc. (*Raleigh*) provides efficacy testing of agricultural chemicals such as fungicides, herbicides, nematicides and biopesticides on various crops including fruits, turf, vegetables and row crops.

www.biologicalappliedresearch.com

Biolumidation LLC (*Winston-Salem*) provides contract research services, specializing in safety pharmacology studies to evaluate potential undesirable pharmacokinetic effects and providing assessments of abuse liability.

www.biolumidation.com

BioLume Inc. (*Wendell*) develops and commercializes bioluminescent (light producing) proteins for the food, beverage, cosmetic and diagnostic imaging markets.

www.biolume.net

BioMarck Pharmaceuticals Ltd. (*Durham*) develops drugs to treat pulmonary diseases and disorders, such as chronic obstructive pulmonary disease, asthma, chronic bronchitis and cystic fibrosis.

www.biomarck.com

bioMASON (*Research Triangle Park*) develops masonry material from a non-pathogenic bacterium which induces cement materials in between aggregates such as sand.

www.biomason.com

North Carolina's more than 120 contract research and testing companies make NC the world's greatest concentration of such firms.

BioMedica USA LLC (*Durham*) develops rapid and portable diagnostic systems and biosensor systems for point-of-care platform in blood coagulation, clinical immunology and drug monitoring.

www.biomedicausa.com

BioMedomics Inc. (*Morrisville*) develops rapid molecular diagnostic assays and technologies.

www.biomedomics.com

bioMérieux Inc. (*Durham*) develops in-vitro products to diagnose infectious diseases, cancer and cardiovascular disease and to detect microorganisms in agri-foods, pharmaceuticals and cosmetics.

www.biomerieux-usa.com

bioMONTR Labs (*Research Triangle Park*) provides a broad range of CLIA certified high-complexity laboratory testing, including assay/IVD protocol development, validation design, performance evaluation testing, drug trials and collaborative studies, and regulatory/quality control.

www.biomontr.com

Bio-Pro Research LLC (*Hickory*) manufactures and distributes bio-enzymatic products for stain and odor removal.

www.urineoff.com

Bioptigen Inc. (*Research Triangle Park*) develops in vivo optical imaging systems for biomedical applications.

www.bioptigen.com

Bioredex International Inc. (*Warrenton*) develops and sells bioremediation products for home, commercial and institutional use.

www.bioredex.com

BioResource International Inc. (*Durham*) discovers and develops animal feed enzymes.

www.briworldwide.com

BioRxn LLC (*Chapel Hill*) is developing technology to generate electricity and biofuel from agricultural waste.

www.biorxn.com

BioShape Solutions Inc. (*Durham*) develops medical devices that deliver antibiotics to prevent and treat orthopedic implant infections.

www.bioshapesolutions.com

Biospecimen Procurement Solutions Inc. (*Chapel Hill*) specializes in the acquisition, cryopreservation and transport of human tissue specimens (biospecimens) used in biomarker analysis.

www.coreprognostex.com

Biotech Restorations LLC (*Denver*) provides bioremediation of petroleum and chlorinated hydrocarbons, especially gasoline and diesel and organochloride pesticides, PCBs and volatile chemicals.

www.biotechrestorations.com

BioTrackers Inc. (*Charlotte*) develops bacterial, or microbe, source tracking technology.

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Alston & Bird has more than 100 attorneys actively involved in the life sciences industry, with intellectual property practices focused on patent prosecution, trademark prosecution, litigation, licensing and IP transactions. Our multidisciplinary approach includes intellectual property; health care; food, drug and device; corporate finance and litigation.

ALSTON & BIRD LLP

EDUCATIONAL ASSISTANCE

Southeastern and eastern North Carolina's numerous academic research facilities are using the tools of marine biotechnology, agricultural biotechnology and biomanufacturing to find new crops, new medicines and new opportunities for producing biofuels.

Bio-Val LLC (*Cornelius*) provides assay development, method validation, regulatory compliance and medical writing services.
www.biovalconsulting.com

BioVendor LLC (*Asheville*) sells biological reagents and research products, including Enzyme-linked immunosorbent assay kits and other assays, antibodies, proteins and other molecules for life-sciences research. The Asheville site is the U.S. headquarters.
www.biovendor.com

Bioventus LLC (*Durham*) researches and develops biomaterials, cell-based therapies and other products to treat osteoarthritis and orthopedic injuries, as well as related infections and pain.
www.bioventusglobal.com

BioZyme Inc. (*Apex*) develops and sells substrates for metalloproteinases (MMPs and ADAMs) which can be used in enzyme assays and other diagnostic tests. BioZyme also provides contract enzymology services such as inhibitor screening.
www.biozyme-inc.com

Blue Ridge Institute for Medical Research (*Horse Shoe*) researches protein kinase enzymes and targeted cancer therapies.
www.brimr.org

Botanics Integrated LLC (*Research Triangle Park*) researches botanical extracts and develops biochemically standardized products for use in pharmaceuticals, natural products and cosmetics.
www.botanicsintegrated.com

BotaniPharm LLC (*Candler*) develops botanical medicines using biologically standardized, forest-grown goldenseal.
www.botanipharm.com

Brite Bio Inc. (*Research Triangle Park*) provides contract research services, such as cell culture services, cell-based assays, biomarker assay development and gene expression profiling and characterization.
www.britebio.com

Burke Research Associates LLC (*Morganton*) conducts Phase III and IV clinical trials for gastrointestinal disorders such as ulcerative colitis, Crohn's disease and diverticulitis.

Burleson Research Technologies Inc. (*Morrisville*) provides laboratory services to clients from the biotechnology, pharmaceutical, chemical manufacturing and health care industries with proof-of-concept, pre-clinical, clinical and toxicology studies.
www.brt-labs.com

C Change Surgical LLC (*Winston-Salem*) researches, patents and commercializes surgical technologies that reduce direct costs and improve procedural efficiency. C Change has focused to date on computerized, therapeutic temperature management technologies.
www.cchangesurgical.com

Calvert Laboratories Inc. (*Cary*) provides preclinical research and contract drug discovery and development services such as lead identification and lead optimization services.
www.calvertlabs.com

Camargo Pharmaceutical Services LLC (*Durham*) provides contract drug development services, including formulation and testing, regulatory and all phases of clinical development.
www.camargopharma.com

Camras Vision (*Research Triangle Park*) is developing a medical device to treat glaucoma.
www.camrasvision.com

Cancer Advances Inc. (*Durham*), a subsidiary of Cato Bioventures, develops therapeutics to treat gastrointestinal cancers.
www.canceradvancesinc.com

CanDiag Inc. (*Charlotte*) develops and commercializes diagnostic blood tests designed to detect breast cancer.
www.candiaginc.com

Cannon Research Center (*Charlotte*) conducts clinical studies, translational research and other bench research activities for Carolinas Medical Center.
www.carolinashealthcare.org/cannon-research-center-centers-and-institutes

Capture Pharmaceuticals Inc. (*Chapel Hill*) develops oral and topical formulations of diethylenetriaminepentaacetic acid prodrugs as radionuclide decorporation agents.
www.capturepharm.com

CardioPharma Inc. (*Wilmington*) develops combinatorial products to treat cardiovascular disease.
www.cardio-pharma.com

Cardioxyl Pharmaceuticals Inc. (*Chapel Hill*) develops therapies for cardiovascular disease using nitroxyl technology.
www.cardioxyl.com

Carolina BioPharm Inc. (*Raleigh*) develops small-molecule cancer treatments.
www.carolinabiopharm.com

Carolina Immunochemistry LLC (*Winston-Salem*) develops immunological reagents as well as homogenous assays for vitamin D that can be run with equipment already present in most physician laboratories.

Carolina Liquid Chemistries Corp. (*Winston-Salem*) is a medical device company specializing in diagnostic tests for physician, hospital and reference laboratories.
www.carolinachemistries.com

Carolina Medical Products (*Farmville*) manufactures prescription and OTC liquids and ointments for oral and topical use.
www.carolinamedical.com

Carolina Research Institute for Infectious Disease Inc. (Research Triangle Park) is an independent, nonprofit research organization that identifies and optimizes new classes of antibiotics.

www.carolinaresearchinstitute.org

Catalent Pharma Solutions LLC (Morrisville) develops inhalation products and provides analytical testing, formulation and other scientific services.

www.catalent.com

Cathtek Inc. (Winston-Salem) develops and manufactures catheters and related accessories.

www.cathtek.com

Cato Research Ltd. (Durham) provides contract research services that range from design and management of preclinical and clinical studies to submission of regulatory documents.

www.cato.com

CEI Labs Inc. (Cary) provides industrial hygiene laboratory services such as asbestos testing, microbiology analysis and fungi analysis.

www.ceilabs.com

Cell Microsystems Inc. (Chapel Hill) develops bioscience research tools for use in analytical research laboratories. Its first product line is used for cell sorting and cell separation.

www.cellmicrosystems.com

Cellex Inc. (Research Triangle Park) develops, manufactures and markets diagnostic tests suitable for point-of-care use. These tests use a platform technology called Homogeneous Biochemiluminescence Assay (HBA), which enables assays that are highly sensitive and easy-to-use.

www.cellex.us

Cellogene LLC (Durham) provides cell culture and cell engineering services. The company is also developing methods for isolating breast cancer tumor cells to support personalized breast cancer treatment.

CellSolutions LLC (Greensboro) develops liquid-based preparation and evaluation systems for cytology applications. The company's primary area of focus is women's health, including cervical cancer screening, pre-cancer detection and evaluation of infectious disease.

www.cellsols.com

Celplor LLC (Raleigh) provides customized molecular biology services including cDNA cloning, recombinant protein expression and purification, mouse tail genotyping, ES cell Southern screening, flanking sequence recovery (FSR) for transgenic plants.

www.celplor.com

CEM Corp. (Matthews) designs and develops microwave laboratory instrumentation and scientific methods for life sciences, analytical laboratories and processing plants.

www.cem.com

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Wexford Science & Technology, a BioMed Realty company, is focused on building powerful Knowledge Communities for the North Carolina life science industry. Combining flexible spaces, access to University infrastructure and resources, and valuable business services and connections, these collaborative places provide researchers, entrepreneurs, and growing companies a place to move innovations from the laboratory to the marketplace.

For additional information contact
 The Chesterfield :: Robin Anders, SIOR rander@naicarplantic.com
 :: Jimmy Barnes, SIOR jbarnes@naicarplantic.com
 Wake Forest Innovation Quarter :: Coleman Team, CCIM coleman@linvilliteam.com

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Companies Ce – Ch



Cempra Pharmaceuticals Inc. (*Chapel Hill*) develops antibiotics for treating drug-resistant bacterial infections.

www.cempra.com

Cenduit LLC (*Durham*) helps pharmaceutical, biotech and medical device companies control the processes of patient enrollment, patient randomization and drug supply through the use of Interactive Response Technology (IRT).

www.cenduit.com

Centice Corp. (*Morrisville*) develops computational sensor technology for pharmaceutical development, drug anti-counterfeiting, biotechnology, process manufacturing and homeland security applications.

www.centice.com

Cerenova LLC (*Raleigh*) develops technologies and treatments targeting neurological diseases.

www.cerenova.com

CertiRx Corp. (*Research Triangle Park*) develops products to prevent counterfeiting of pharmaceuticals and other products, including both printed authentication and microparticle taggants.

www.certirx.com

Chaperone Therapeutics Inc. (*Research Triangle Park*) develops small-molecular compounds for neurodegenerative diseases and noise-induced hearing loss.

www.chaperonetherapeutics.com

Charles River Laboratories Inc. (*Raleigh, Morrisville and Durham*) provides drug discovery and development process services, pathology and toxicology contract services, and in vivo and in vitro oncology research services.

www.criver.com

Charter Medical Ltd. (*Winston-Salem*) develops and manufactures products for the collection, separation, manipulation, transportation, storage and administration of blood, blood components and vital fluids in the biotechnology and pharmaceutical industries.

www.chartermedical.com

Chatham Therapeutics LLC (*Chapel Hill*) develops gene therapy-mediated cures for hemophilia.

Chelsea Therapeutics International Ltd. (*Charlotte*) is a biopharmaceutical development company that acquires and develops products for the treatment of various human diseases, including central nervous system disorders.

www.chelseatherapeutics.com

Chematron Inc. (*Charlotte*) manufactures textile chemicals and has the capability for contractual custom manufacture of specialty chemicals.

www.chematron.com

Chem-Bac Laboratories Inc. (*Charlotte*) is an FDA-registered analytical testing laboratory.

www.chembac.com

Cheminova Inc. USA (*Research Triangle Park*) is the U.S. subsidiary of Cheminova A/S, a Danish company that develops and produces herbicides and other plant protection products. Cheminova's office in RTP handles sales and marketing in the U.S.

www.cheminova-us.com

ChemoGenics Biopharma LLC (*Research Triangle Park*) provides drug discovery research services such as medicinal chemistry, DMPK, bioinformatics, and preclinical models in cancer, inflammation and metabolic diseases.

www.chemogenicsbiopharma.com

ChemQ Bioscience LLC (*Research Triangle Park*) develops new and cost-effective in vitro clinical diagnostics known as liquid based cytology products for the screening of cancer cells.

www.vitroprep.com

Chem-Tex Laboratories Inc. (*Concord*) develops and manufactures specialty chemicals for the textiles, paper and industrial polymer industries. One product, called Bac-Shield, contains a natural microbial extracted from snow crab shells.

www.chemtexlaboratories.com

Chemtura USA (*Gastonia*) manufactures specialty chemicals and crop protection products.

www.chemtura.com

Chesson Laboratory Associates Inc. (*Durham*) develops polymer-based medical products.

www.chessonlabs.com

Chiesi USA Inc. (*Cary*) acquires, develops and commercializes products for the hospital, niche respiratory and related specialty markets.

www.chiesiusa.com

Chiltern International Inc. (*Wilmington*) conducts Phase I through IV global clinical trials across a broad range of therapeutic areas, functional service provision and contract staffing solutions.

www.chiltern.com

Chimerix Inc. (*Durham*) develops oral antiviral therapeutics for viral diseases including adenoviruses, CMV, BK virus, HPV, HIV and HCV.

www.chimerix.com

Chirazyme Labs Inc. (*Greenville*) produces enzymes for stereospecific epoxidation intermediates in pharmaceutical synthesis.

www.chirazyme.com

Cirrus Pharmaceuticals, a Kemwell company (*Durham*) provides product development services, including physical and chemical characterization, formulation development, stability testing, process development, as well as scale-up and technical transfer to manufacturing.

www.cirruspharm.com

CivaTech Corp. (*Raleigh*) develops materials for radiation therapy, including stent applications.

www.civatech.com

CivaTech Oncology Inc. (*Research Triangle Park*) develops radioactive polymer-based devices to treat localized tumors.

www.civatechoncology.com

CiVentiChem (*Cary*) provides contract R&D services, medicinal chemistry, lead optimization, process R&D, cGMP Synthesis of APIs for clinical trials, cGMP/GLP analytical services, CMC consulting and custom synthesis of pharmaceutical intermediates and APIs.

www.civenticchem.com

Clearside Biomedical Inc. (*Durham*) develops and commercializes ophthalmic therapeutic products that use an ocular microinjection platform to target individual compartments of the eye.

www.clearsidebio.com

Clinical Sensors Inc. (*Durham*) develops diagnostic tests and nitric oxide sensors for the early detection of sepsis.

Cloud Pharmaceuticals Inc. (*Research Triangle Park*) uses high-performance computing and the principles of personalized medicine to enable clients and partners to speed drug development, especially in oncology.

www.cloudpharmaceuticals.com

Cmed Clinical Services (*Durham*) provides clinical services to drug development organizations and manages early-phase studies (Phase I - IIb) with a focus in oncology, infectious disease, respiratory and cardiology.

www.cmedresearch.com

Cognosci Inc. (*Research Triangle Park*) develops neurorestorative therapies for Alzheimer's disease, multiple sclerosis, traumatic brain injury, nerve crush and other disease and trauma indications.

www.cognosci.com

CoLucid Pharmaceuticals Inc. (*Durham*) develops therapies for central nervous system (CNS) disorders such as migraine, chronic pain and Alzheimer's disease.

www.colucid.com

Columbia Life Systems Inc. (*Chapel Hill*) is developing a computer-controlled oxygen blender for therapeutic research.

Combs Lab Inc. (*Chapel Hill*) develops drug therapies for diabetes and is developing a noninsulin oral medication for Type 1 diabetes.

www.combslab.com

Concentrx Pharmaceuticals LLC (*Chapel Hill*) develops inhalation drug delivery products, including a dry powder unit dose inhaler.

www.concentrxpharma.com

Contego Medical LLC (*Raleigh*) develops medical devices for cardiovascular applications. The devices combine embolic protection with a stent or balloon.

www.contegomedical.com

ConvaTec Inc. (*Greensboro*) manufactures products for ostomy, skin and advanced wound care.

www.convatec.com

Cook Medical (*Winston-Salem*) develops and manufactures devices used in gastrointestinal endoscopy to diagnose and treat esophageal, gastric, pancreatic, biliary and colonic disorders.

www.cookgroup.com

Coordination Therapeutics Inc. (*Chapel Hill*) develops nanoparticle formulations of platinum chemotherapeutics.

Corinthian Ophthalmic Inc. (*Boone*) is developing a new form of the eye dropper.

www.corinthianicare.com

Corning Life Sciences (*Durham*) manufactures pipettes, conical and round-bottom tubes, cell inserts, tissue-culture plates and ADME/ Toxicology products.

www.corning.com

Cotton Incorporated's (*Cary*) Agricultural & Environmental Research Division improves cotton cultivation through genetic and biotechnology tools, enhancing yield, quality and resistance of cotton varieties.

www.cottoninc.com

Countervail Corp. (*Charlotte*) develops and commercializes products to protect against and treat exposure to chemical weapons and pesticide poisoning.

www.countervailcorp.com

Covis Pharmaceuticals Inc. (*Cary*) distributes therapeutics for the cardiovascular, central nervous system and acute care markets.

www.covispharma.com

Craft Technologies Inc. (*Wilson*) provides analytical and method development services to measure nutritional components in blood, tissues, dietary supplements, food and animal feed.

www.crafttechnologies.com

Creative Scientist Inc. (*Durham*) specializes in bioassay development, primary cell production and pre-clinical contract research services. They are also developing a radiation sensitivity cell-based assay.

www.incellbio.com

Companies Cr – Du



Cromoz Inc. (*Raleigh*) develops non-toxic, water-soluble carbon nanotubes that can be used as a drug delivery tool to reduce the amount of drug used during chemotherapy and reduce potential drug side effects.

www.cromoz.com

Crop Microclimate Management Inc. (*Apex*) researches and develops technologies to improve crop productivity by mitigating the impact of environmental stresses.

www.cropstress.com

CTMG Inc. (*Greenville and Raleigh*) provides site-specific clinical research management services, including patient recruitment, personnel, expertise and systems.

www.ctmginc.com

CuraCaza (*High Point*) provides biologically active natural products to the pharmaceutical industry as part of the drug discovery process.

www.curacaza.com

Curasan Inc. (*Durham*) offers products in the fields of bone and tissue regeneration and wound healing for dental applications. This location is the US headquarters.

www.curasan.com/usa

Curl Bio LLC (*Durham*) develops drugs for the interrelated set of disorders involving type-II diabetes, obesity, metabolic syndrome and associated complications.

www.curlbio.com

The Research Triangle Park was formed in 1959, leading a global proliferation of research parks that continues today.

Cygnus Technologies Inc. (*Southport*) develops immunochemical reagents and methods for analytical research and human and animal diagnostic applications.

www.cygnustechnologies.com

Cytex Therapeutics Inc. (*Durham*) develops bio-artificial devices to treat osteoarthritis and other musculoskeletal diseases.

www.cytextherapeutics.com

Cytomedix Inc. (*Durham*) is developing and commercializing platelet and adult stem cell separation products for tissue repair and regeneration.

www.cytomedix.com

Cytonet LLC (*Durham*) develops, produces and markets cell therapeutic products, including human liver cells, to treat liver diseases.

www.cytonetllc.com

Daily Manufacturing Inc. (*Rockwell*) manufactures vitamins, minerals and herbals. The company also manufactures products for other supplement companies with their own brand names.

www.daily-mfg.com

DARA BioSciences Inc. (*Raleigh*) develops and commercializes oncology treatments and supportive care.

www.darabio.com

DaVINCI Biomedical Research Products Inc. (*Garner*) is an AAALAC-accredited contract lab that performs GLP and non-GLP preclinical animal studies. DaVINCI specializes in regenerative medicine, cardiovascular, orthopedic and medical device applications.

www.davincibiomed.com

Dharma Laboratories LLC (*Morrisville*) develops dosage forms, including oral solids, liquids, injectables, topicals and specialty products.

www.dharmapdlabs.com

Diagnostic Chips LLC (*Burlington*) manufactures miniaturized biomedical diagnostic devices (lab-on-a-chip).

www.diagnosticchips.com

Dignify Therapeutics LLC (*Research Triangle Park*) develops bladder and bowel drug therapies for spinal cord injured, multiple sclerosis and similar patient populations with voiding dysfunction.

www.dignifytherapeutics.com

DNA:SI Labs (*Burlington*) provides forensic DNA and identity testing services to law-enforcement and other government agencies.

www.dnasi.com

Dole Nutrition Research Laboratory (*Kannapolis*) conducts research on phytochemicals found in fruits and vegetables.

www.ncresearchcampus.net/partners-and-research/partners/dole-nutrition-research-laboratory

Drumetix Laboratories LLC (*Greensboro*) provides bioanalytical support for drug metabolism, pharmacokinetics and toxicokinetic (DMPK, ADME) studies, as well as LC-MS/MS analysis of small molecule biomarkers, such as neurotransmitters, all-trans retinoic acid and creatinine.

www.drumetix.com

DSM Pharmaceuticals Inc. (*Greenville*) manufactures sterile injectables (liquid and freeze-dried), and solid dose (tablets and capsules).

www.dsm.com/pharma

Duke Clinical Research Institute (*Durham*) is an academic clinical research organization that conducts clinical research projects from pilot study to global trials, device trials to outcomes analyses.

www.dcri.duke.edu

DuPont Pioneer - Kinston Research Center (*Kinston*) conducts research on the conventional and transgenic development of corn, soybeans and other crops, with an emphasis on drought-resistant products.
www.pioneer.com

Dyadic International Inc. (*Greensboro*) discovers, develops, and manufactures proteins, enzymes, polypeptides and small molecules for use in the animal nutrition, detergent, ethanol, pulp and paper, biopharmaceutical, starch and textile markets.
www.dyadic.com

Eboo Pharmaceuticals Inc. (*Durham*) develops small-molecule drugs targeted at the delta opioid receptor to treat Parkinson's disease, cardiac reperfusion injury, and depression.
www.eboopharma.com

Ecoblend LLC (*Pittsboro*) develops and manufactures organic weed and pest control products, using soy methyl esters as a main ingredient.
www.ecoblend.us

Effipharma Inc. (*Chapel Hill*) discovers and develops therapeutics to treat disorders of the central nervous system, with a particular focus on Parkinson's disease, Alzheimer's and other cognitive impairments, and schizophrenia.
www.effipharma.com

Ei, A Pharmaceutical SolutionWorks (*Kannapolis*) develops and manufactures liquid, semi-solid and powder prescription and non-prescription skin-care and animal-health products.
www.eisolutionworks.com

Eisai Inc. (*Research Triangle Park*) discovers, develops and markets pharmaceuticals in three main therapeutic areas - neurology, gastrointestinal disorders and oncology/critical care. Eisai's RTP facility does pharmaceutical production and formulation R&D.
www.eisai.com

NCBiotech has loaned 154 small companies more than 222 loans, totaling \$25+ million. That's leveraged \$2.95 billion in additional funding (\$117 for every dollar loaned).

EMSL Analytical Inc. (*Morrisville, Charlotte and Kernersville*) provides analytical services, including microbiology, asbestos, metals, indoor air quality and food testing.
www.emsl.com

EN-CAS Analytical Laboratories (*Winston-Salem*) EN-CAS provides GLP-compliant analytical chemistry contract services for agrochemical, veterinary and bioanalytical research. EN-CAS has experience with preclinical and clinical trials support, pesticides, herbicides and veterinary drugs.
www.en-cas.com

Enci Therapeutics Inc. (*Research Triangle Park*) is developing monoclonal antibody-based therapeutics to treat breast cancer.

ENCO Pharmaceutical Development Inc. (*Cary*) provides comprehensive product development services to the pharmaceutical and medical device market.
www.encopharma.com



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North Carolina is home to 17 UNC System campuses, 35 private universities, 10 technology transfer offices and 58 community colleges. There are also seven research parks, 37 commercial web lab/incubator sites and dozens of core labs offering a wide range of services and specialized equipment.

Endacea Diagnostics Inc. (*Research Triangle Park*) is developing an HTRF endotoxin assay as a sensitive and specific biomarker for sepsis.

www.endacea.com

Endacea Inc. (*Research Triangle Park*) develops A1 adenosine receptor antagonists as drug candidates for inflammation, including sepsis and asthma, and renal impairment.

www.endacea.com

e-Nicotine Technology (*Chapel Hill*) is developing a product to combine clean nicotine aerosols for inhalation with e-health tools to help individuals transition from smoking.

www.enicotinetechnology.com

eNNOVEA (*Asheboro*) is a contract manufacturer providing engineering, product development, plastic injection molding and assembly services to the medical device and pharmaceutical industries.

www.ennovea.com

EnSolve Biosystems Inc. (*Raleigh*) produces proprietary biologically-based treatment systems to address oily bilge water, "frack" water, process waste streams and scrubber water. They also manufacture bioenzymatic degreasers/detergents and oil-spill cleanup products.

www.ensolve.com

Entegriion Inc. (*Research Triangle Park*) develops biologic and medical device technologies to enhance the safety and availability of the human blood supply. The company also provides blood supply-related contract R&D services to the U.S. Department of Defense.

www.entegriion.com

Entera Health Inc. (*Cary*) develops biotherapeutic products for enteropathy.

www.enterahealth.com

Enteric Solutions Corp. (*New Bern*) develops innovative pharmaceutical technologies for the treatment of diarrheal disease in developing countries.

www.entericsolutions.com

ENTEX Technologies Inc. (*Chapel Hill*) provides advanced biological and filtration wastewater treatment that can be customized for various industries.

www.entexinc.com

EntoGenetics Inc. (*Charlotte*) engineers the production of spider silk at a commercial scale through the genetic transformation of silkworms. Spider silk is a very strong fiber that has applications in the biomedical, defense and textile industries.

www.entogenetics.com

EntoGenex Biotechnology LLC (*Chapel Hill*) develops mosquito-control products using biological technologies such as Trypsin Modulating Oostatic Factor (TMOF), a small protein that interferes with digestion in mosquito larvae and leads to their starvation.

www.entogenex.com

ENVIGEN Pharmaceuticals Inc. (*Durham*) develops classes of new small drug-like molecules to treat life-threatening diseases including cancer, HIV/AIDS and neurological disorders.

www.envigenpharma.com

Environmental Testing Solutions Inc. (*Asheville*) offers microbiological and chemical testing for drinking water and wastewater, and aquatic biomonitoring toxicity testing.

www.etsnclab.com

Envisia Therapeutics Inc. (*Morrisville*) works to discover and develop novel therapies to address significant unmet medical needs in ophthalmology.

www.envisiatherapeutics.com

EPL Inc. (*Durham*) provides histology, pathology, necropsy and toxicology services for government and commercial clients. EPL also offers frozen and room temperature storage at EPL's BioRepository.

www.epl-inc.com

Eton Bioscience Inc. (*Research Triangle Park*) specializes in DNA sequencing and offers other services such as gene and peptide synthesis, mutagenesis and mammalian cell expression.

www.etonbio.com

Eurofins Agrosience Services Inc. (*Mebane*) provides contract research services, product development consulting and technical support to the crop protection, agricultural biotechnology and pest control industries.

www.eurofins.com/agrosienceservices.aspx

Exela Pharma Sciences LLC (*Lenoir*) develops and manufactures injectable, ophthalmic and inhalation pharmaceuticals. The Lenoir site is a sterile manufacturing facility, compliant with cGMP and other FDA regulations.

www.exela.us

Exodos Life Science Partners (*Chapel Hill*) is a semi-virtual pharmaceutical development company advancing product concepts through the 505(b)(2) process to early clinical proof-of-principle and sale.

www.exodosls.com

Expression Analysis Inc. (*Durham*) provides gene expression and genotyping assays, DNA sequencing services, sequence enrichment technologies, marker-assisted breeding and bioinformatics support. The laboratory is CLIA-registered and supports GLP compliance.

www.expressionanalysis.com

Fair Products Inc. (*Cary*) manufactures and distributes tobacco crop care products including insecticides, sucker control, ripeners and fertilizers.

www.fairproductsinc.com

Fervent Pharmaceuticals LLC (*Greenville*) develops a non-hormonal product, FP-101, to treat vasomotor symptoms associated with menopause.

www.ferventpharma.com

FHI 360 (*Durham*) develops responses to HIV/AIDS and other health and nutrition concerns in resource-poor settings. The laboratory in Durham offers medical-device and pharmaceutical testing services.

www.fhi360.org

FLAG Therapeutics Inc. (*Raleigh*) develops cancer therapeutics using new classes of small molecules which have selective dual activity - antiangiogenesis and chemotherapeutic.

www.FlagTherapeutics.com

Fleming Laboratories Inc. (*Charlotte*) manufactures animal pharmaceuticals.

Flexcell International Corp. (*Hillsborough*) designs and manufactures products for cytomechanics research, studying cellular responses to mechanical forces such as tension or compression.

www.flexcellint.com

Foothills Bio-Energies (*Lenoir*) processes biodiesel from locally available feedstocks such as oilseed crops and poultry fat.

www.foothillsbio-energies.com

Fresenius Kabi USA (*Raleigh*), formerly APP Pharmaceuticals, manufactures generic injectable pharmaceutical products in four therapeutic areas: anti-infective, anesthesia/analgesia, critical care and oncology.

www.fresenius-kabi.us

FSC Pediatrics Inc. (*Charlotte*) develops and markets pharmaceutical products and medical devices, with a focus on unmet pediatric patient and practitioner needs.

www.fscpediatrics.com

Fujifilm Diosynth Biotechnologies USA Inc. (*Morrisville*) provides biopharmaceutical contract process development and manufacturing.

www.fujifilmdiosynth.com

Furiex Pharmaceuticals Inc. (*Morrisville*) conducts and finances early-stage preclinical and proof-of-concept drug development to clinical milestones with partner companies.

www.furiex.com

f(x) Immune Inc. (*Candler*) provides advanced testing services to developers of immuno-therapeutics and vaccines using its proprietary technologies. The company's product development pipeline includes related clinical diagnostics, POC and companion assays and systems.

www.fx-immune.com

G1 Therapeutics Inc. (*Chapel Hill*) develops and commercializes small-molecule therapeutic agents to protect the bone marrow from radiation or chemotherapy damage.

www.g1therapeutics.com

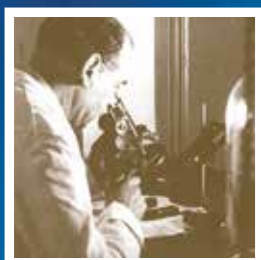
G3 Packaging (*Asheville*) provides packaging and sterilization services, including validation testing and regulatory consulting for medical-device manufacturers and healthcare providers.

www.g3packaging.com

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Companies Ga – Gr

Gaia Herbs Inc. (*Brevard*) grows and produces certified organic herbal products. All growing, manufacturing, processing, researching, packaging and distribution takes place in its North Carolina facilities.

www.gaiaherbs.com

Galaxy Diagnostics Inc. (*Research Triangle Park*) provides molecular diagnostic testing for emerging infectious diseases for both veterinary and human medicine. The company is commercializing proprietary technologies developed at the NCSU College of Veterinary Medicine.

www.galaxydx.com

GEM Tox Consultants & Labs Inc. (*Greenville*) conducts research focused on cancer biotechnology, food safety and toxicology, with a special emphasis on cancer biomarker discovery and validation.

www.gemtoxlabs.com

Gene Facelift LLC (*Kernersville*) develops a genetic cosmetic, gene therapy in a topical cream formulation to reduce wrinkles, regenerate collagen and restore aging skin.

www.genefacelift.com

GeneCentric Diagnostics Inc. (*Durham*) develops molecular diagnostic assays to enable oncologists and their patients to make informed, individualized treatment decisions.

www.genecentric.com

Geneffects LLC (*Carrboro*) provides proteogenomic analyses of data and has developed a proteogenomic search software called Peppy.

www.geneffects.com

Geneformation Technology Inc. (*Belmont*) is a cytogenetics company that develops and commercializes cell culture technology for peripheral blood, bone marrow and amniotic fluid.

www.geneformation.com

General Dynamics Corp. (*Charlotte*) is an electromechanical assembly and integration facility that develops and manufactures products that detect chemicals and biologicals.

www.gdatp.com

General Mills Agricultural Research (*Kannapolis*) is developing an oat with higher and more consistent levels of beta-glucan in order to reduce cholesterol.

ncrc.ehclients.com/partners-and-research/partners/general-mills/

GENEWIZ Inc. (*Research Triangle Park*) provides custom DNA sequencing, gene synthesis, genomics, next-generation sequencing and molecular biology in a GLP/cGMP regulatory environment.

www.genewiz.com

Genome ID Group LLC's (*Greenville*) Center for Advanced Forensic DNA Analysis develops technology and software to analyze complex mixed DNA samples.

www.advancedforensicsdna.com

Genova Diagnostics Inc. (*Asheville*) performs diagnostics and molecular genetics testing under federally designated clinical lab standards to support physicians in personalized chronic disease treatment and prevention.

www.gdx.net

Gentris Corp. (*Morrisville*) performs clinical pharmacogenomic testing and provides biorepository services under federally designated clinical lab standards.

www.gentris.com

Gerinda Therapeutics Inc. (*Cary*) develops targeted drugs for the treatment of Acute Myeloid Leukemia (AML) and other cancers.

GFS Health Corp. (*Winston-Salem*) researches and develops environmentally friendly enzyme, antimicrobial and microbial products for the Americas. Their areas of expertise include oil and gas, mining, bioremediation, aquaculture and agriculture.

www.globalfuturesolutions.com

Advanced Liquid Logic, built from Duke University research and more than \$500,000 in NCBiotech loans and grants, secured hundreds of patents before it sold in 2013 for some \$96 million to San Diego gene-testing powerhouse Illumina.

GlaxoSmithKline (*Research Triangle Park and Zebulon*) develops and manufactures pharmaceutical products including anti-infectives and central nervous system, respiratory, gastro-intestinal/metabolic and oncology drugs and vaccines. The RTP site is the US headquarters. The company manufactures solid-dose products, including tablets and capsules at its Zebulon facility. The plant also does granulation, drying and packaging, and contract manufacturing of antibiotics for other companies.

www.gsk.com

Global Oasis Technologies Inc. (*Durham*) develops diagnostics for water quality assessment.

www.globaloasistechnologies.com

Global Vaccines Inc. (*Research Triangle Park*) is a not-for-profit company that develops vaccines against developing-country diseases such as HIV/AIDS, polio, dengue fever, malaria, and viral diarrhea (rotavirus).

www.globalvaccines.org

Glycan Therapeutics Inc. (*Chapel Hill*) is developing therapies for thrombosis and tools to aid research in the study of sugar chains or glycobiology.

Glycotech Inc. (*Leland*) is a contract manufacturer using renewable biofarnesene from a partnership with Amyris to manufacture products such as biofuels, lubricants, cosmetics and other specialty chemicals. They have developed a process to convert cornmeal to ethanol.

Goldsboro Laboratories LLC (*Goldsboro*) develops and manufactures vaccines for the swine, poultry and cattle divisions of Goldsboro Milling Company.

Gravity Bio Inc. (*Chapel Hill*) develops and commercializes pharmaceutical drugs and medicinal preparations that treat cough, cold, allergies, flu and other viruses, nasal, bronchial, respiratory and associated congestion and their symptoms.

www.gravitybio.com

Greer Laboratories Inc. (*Lenoir*) develops and distributes animal and human allergy immunotherapy products and services.

www.greerlabs.com

Grifols Inc. (Research Triangle Park, Raleigh and Clayton) develops and produces plasma-derived products, including plasma therapies, hospital pharmacy products and diagnostic technology, to treat chronic and acute conditions in the therapeutic areas of immunology, pulmonology and hemostasis. Grifols' Clayton plant is the company's primary manufacturing facility, producing proteins to treat rare diseases including immune deficiencies and genetic emphysema. Grifols has an R&D bioanalytics facility in Raleigh.

www.grifols.com

GTCAllison LLC (Mocksville) researches and develops diagnostic tests for animal pathogens.

www.gtcallison.com

Happy Jack Inc. (Snow Hill) manufactures insecticides and pharmaceutical preparations to treat dogs.

www.happyjackinc.com

HCEC LLC (Winston-Salem) isolates cells from donor corneas to grow replacement corneal tissue in the laboratory.

www.hcecllc.com

HDH Pharma Inc. (Morrisville) provides contract chemistry research services to pharmaceutical and biotechnology companies, including medicinal and process chemistry, and custom synthesis.

www.hdhpharma.com

Health Decisions Inc. (Durham) is a global clinical research organization that specializes in applying adaptive principles to both trial design and operations.

www.healthdec.com

Healthspan Diagnostics LLC (Chapel Hill) develops molecular diagnostics to help physicians predict risk of adverse reactions in response to chemotherapy and surgeries.

www.healthspandiagnostics.com

Morrisville-based Aerial BioPharma, supported by a \$250K loan and other support from NCBIotech, sold rights to its clinical-stage narcolepsy drug for up to \$397 million to Jazz Pharmaceuticals of Dublin, Ireland.



Medicago is a clinical-stage biopharmaceutical company developing novel vaccines and therapeutic proteins to address a broad range of infectious diseases worldwide. The Company is committed to providing highly effective and competitive vaccines and therapeutic proteins based on its proprietary Virus-Like Particles (VLPs) and manufacturing technologies. Medicago is a worldwide leader in the development of VLP vaccines using a transient expression system which produces recombinant vaccine antigens in plants.



This technology has potential to offer more potent vaccines with speed and cost advantages over competitive technologies, enabling the development of a vaccine for testing in approximately one month after the identification and reception of genetic sequences from a pandemic strain. This production time frame has the potential to allow vaccination of the population before the first wave of a pandemic, and supply large volumes of vaccine antigens to the world

market. Medicago also intends to expand development into other areas such as biosimilars where the benefits of our technologies can make a significant difference.

Headquartered in Canada, the Company operates Medicago U.S.A., a commercial-scale facility in the Research Triangle Park, North Carolina where are produced clinical lots required for the development of its influenza vaccines. This Virus-Like-Particle plant-based vaccine facility includes a fully automated greenhouse and a state of the art extraction and purification unit. The 97,000-square-foot cGMP facility is targeted to produce 10 million doses of pandemic influenza vaccine per month. On an annual basis, the facility could have production capacity of 30 million doses of quadrivalent seasonal influenza vaccine or 120 million doses of pandemic influenza vaccine.

www.medicago.com | 919.313.9670



A World-Class Life Science Region in the Making

- A recent labor study confirmed the availability of qualified workers, familiar with cGMP, to support an additional 400-employee Biomanufacturing facility in eastern NC.
- A major research university and medical school offer an array of degrees and certifications to keep the talent pipeline full. Find out why companies like Merck, DSM/Patheon, RTI Surgical, Metrics, Hospira and a host of suppliers and service companies are thriving here.

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Companies He – Il



Heat Biologics Inc. (*Chapel Hill*) develops therapeutic vaccines to combat a range of cancers and infectious diseases.

www.heatbio.com

Hemo Bioscience Inc. (*Research Triangle Park*) is an FDA-registered manufacturer of blood-typing reagents and diagnostics for the blood-banking industry.

www.hemobioscience.com

Hemodynamic Therapeutics (*Durham*) develops small-molecule combination therapy for obesity-related hypertension.

www.hemodynamictx.com

HepatoSys Inc. (*Cornelius*) develops technologies for functional restoration of donor livers for use in transplantation and research, focusing on methods for expanding availability of quality human hepatocytes for research and toxicity testing.

www.hepatosys.com

High Point Clinical Trials Center (*High Point*) conducts Phase I and II clinical research studies for pharmaceutical companies.

www.hpctrialscenter.com

High Point Pharmaceuticals LLC (*High Point*) was spun out of TransTech Pharma to manage the development of drugs for obesity and diabetes.

www.highpointpharma.com

HOMS LLC (*Pittsboro*) develops, manufactures and markets natural products such as the Bite Blocker line of insect repellents and Bio Block organic insecticides.

www.homs.com

Hongene Biotechnology USA Inc.

(*Morrisville*) develops and manufactures bio-reagents such as nucleosides, nucleotides and phosphoramidite products.

www.hongeneusa.com

Hospira Inc. (*Rocky Mount and Clayton*)

manufactures injectable hospital products in Rocky Mount. The facility also provides contract manufacturing services such as aseptic filling, lyophilization, terminal sterilization and more. Hospira's Clayton plant makes generic acute injectable drugs for intravenous use. The Clayton facility also provides contract manufacturing services.

www.hospira.com

Howard Associates LLC (*Research Triangle Park*) provides preclinical contract research services to the pharmaceutical industry. The company uses rodent models to predict the efficacy of experimental compounds, especially for CNS diseases, and to predict CNS side effects.

www.howardassociates.net

HRF Inc. (*Raleigh*) is a plasma center that provides human blood plasmas for bioscience research.

www.hrfinc.com

Humacyte Inc. (*Morrisville*) develops processes to engineer human tissue scaffolds that can be shaped into tubes, sheets or particulates for regenerative medicine uses. The current product focus includes vascular disease, therapeutic filling and soft-tissue repair.

www.humacyte.com

Hydro Service and Supplies Inc. (*Durham*) provides design, manufacturing and installation of high-purity water systems for laboratory and manufacturing processes. It also provides microbiological and enzymatic water testing services.

www.hydroservice.com

Hyperbranch Medical Technology Inc.

(*Durham*) is a biosurgical device company focused on the design, development and manufacture of resorbable surgical sealants for general and specialty surgery use.

www.hyperbranch.com

ICON Clinical Research (*Durham*) provides drug development and clinical services, from compound selection to Phase I-IV clinical studies, in areas including oncology, cardiovascular and biosimilars.

www.docsglobal.com

IDEXX Reference Laboratories Inc.

(*Greensboro*) provides animal health diagnostic products and services for use in small animals, equine, poultry and dairy livestock. It also provides microbiology-based water testing products.

www.idexx.com

Idyllic Pharmaceuticals LLC (*Cary*) is a drug development company that intends to in-license products that have already entered clinical trials.

ILS Genomics LLC (*Research Triangle Park*)

provides genotyping, gene expression analysis and biologics product safety testing services.

www.ilsgenomics.com

Immunobenefit LLC (*Chapel Hill*) offers immune testing and development services for the nutrition and supplement industry, using cell culture, animal models and human studies.
www.immunobenefit.com

ImmunogeniX LLC (*Asheville*) provides a cryonics biorepository for storage of patient tumor cell samples, with the goal of using those cells in tumor vaccine immunology.
www.immunogenixresearch.com

ImmunoReagents Inc. (*Raleigh*) manufactures primary and secondary polyclonal antibodies used in research and in vitro diagnostics for the pharmaceutical and veterinary markets.
www.immunoreagents.com

Inanovate Inc. (*Durham*) develops nano-structured biochip substrates for high-throughput protein screening and analysis. The company also provides a variety of microarray services such as protein printing/arraying and assay development.
www.inanovate.com

INC Research Inc. (*Raleigh and Wilmington*) provides Phase I-IV contract research services across a variety of therapeutic areas, with the capability to work with special populations, such as women and pediatrics.
www.incresearch.com

Indicus Pharma LLC (*Raleigh*) develops and manufactures generic formulations in oral solid dosage forms, parenterals and ophthalmics.
www.indicuspharma.com

Ingredion Inc. (*Winston Salem*) manufactures sweeteners and starches from corn.
www.ingredion.com

Innovate Biopharmaceuticals (*Raleigh*) is developing a novel medicine with a dual mechanism for Ulcerative Colitis and inflammatory bowel disorders that is in Phase II clinical trials. With an exclusive global license, the product is backed by 70+ patents across the US, EU and Japan.
www.innovatebiopharma.com

Innovative Neurophysiology Inc. (*Durham*) designs and develops advanced tools, equipment and methodology for neuroscience research.
www.inphysiology.com

InoLife Technologies Inc. (*Raleigh*) develops personalized medicine services and genetic testing for biomarkers including DNA testing for paternity and ancestral origin, response to Plavix medication, and predisposition to certain diseases.
www.inolifetech.com

Integrated Laboratory Systems Inc. (*Morrisville*) provides GLP toxicology, histopathology, molecular biology, and research and development services to government and commercial clients in agro-chemical, biopharmaceutical and environmental industries.
www.ils-inc.com

Intelligent Implant Systems LLC (*Charlotte*) designs and develops medical devices for the spine.
www.intelligentimplantsystems.com

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Companies In – La

inVentiv Health Clinical (*Cary*) provides global drug development services to pharmaceutical, biotechnology, generic drug and medical device companies.

www.inventivhealthclinical.com

Invitrox Inc. (*Research Triangle Park*) develops specialty disease diagnostics and therapeutic monitoring assays using the characteristics of microparticles to detect early signs of cellular damage.

www.invitrox.com

Isagro USA Inc. (*Morrisville*), a wholly owned subsidiary of Isagro SpA, sells and markets crop protection products. The Morrisville office is a sales office.

www.isagro-usa.com

Islet Sciences Inc. (*Raleigh*) develops and commercializes technologies in the field of transplantation therapy for patients with diabetes.

www.isletsciences.com

JABB of the Carolinas Inc. (*Pine Level*) develops and manufactures fungal pesticides and biopesticide products. Products are distributed through its partner company, Terregena.

www.terregena.com

JC Med LLC (*Kannapolis*) JC Med develops home care devices for detection of insulin resistance and products that prevent insulin resistance.

ccc.jcmed-usa.com/home.html

Jenken Biosciences Inc. (*Research Triangle Park*) researches and develops small-molecule TLR-4 antagonists for potential treatment of inflammation associated with chronic liver disease, inflammatory bowel disease, and organ damage such as lung edema and lung fibrosis.

www.jenkenbio.com

JLA International Inc. (*Edenton*) provides testing and analytical services for the food and beverage industry. It also provides technical consulting services.

www.jlaglobal.com

Jubilant Clinsys Inc. (*Raleigh*) provides clinical research services in support of Phase I-IV drug development.

www.clinsys.com

K BioPharma LLC (*Cary*) develops and commercializes clinical-stage therapeutics for the treatment of anxiety and stress related disorders, peripheral neuropathy, Alzheimer's disease, mild cognitive impairment, multiple sclerosis-induced spasticity and glaucoma.

www.kbiopharma.com

KaryoLogic Inc. (*Durham*) provides chromosome analysis services, such as karyotyping of human, rat and mouse cell lines, to research laboratories.

www.karyologic.com

Katharos Inc. (*Apex*) is developing a phosphate-selective adsorption blood filtering medical device to treat high blood phosphate levels in end-stage renal disease hemodialysis patients.

KBI Biopharma Inc. (*Durham*) provides contract development and biopharmaceutical manufacturing services, such as formulation, analytical method development, stability services, process development and API manufacturing.

www.kbibipharma.com

KeraNetics LLC (*Winston-Salem*) develops and commercializes keratin-based biomaterials for therapeutic and regenerative medical applications.

www.keranetics.com

KindHeart Inc. (*Chapel Hill*) develops heart surgery simulators using pig organs.

www.kindheartinc.com

King Bio Inc. (*Asheville*) develops and manufactures water-based homeopathic medicines and supplements for human and companion-animal health. King Bio also provides contract manufacturing services.

www.kingbio.com

KinoDyn Inc. (*Chapel Hill*) leverages the disruptive technology of multiplexed inhibitor beads to revolutionize cancer drug discovery and cancer treatment.

www.kinodyn.com

Kowa Research Institute Inc. (*Morrisville*), a division of Kowa Company Ltd., develops therapeutic drugs for the treatment of diabetes, arteriosclerosis and atherosclerosis.

www.kowaus.com

Kreatech Inc. (*Durham*) develops and commercializes genetic disease detection and research products.

www.kreatech.com

Krenitsky Pharmaceuticals Inc. (*Chapel Hill*) discovers and develops drug candidates, with a focus on disorders of the nervous system.

www.kpi-pharma.com

KXT Bio Inc. (*Research Triangle Park*) develops and commercializes reagents and assays for two major class of drug targets, GTPases and G protein-coupled receptors.

www.kxtbio.com

Laboratory Corporation of America (*Burlington, Research Triangle Park, Morrisville and Kannapolis*) provides clinical and anatomical laboratory services, including clinical trials testing services, and offers a broad range of genomic and esoteric tests. The company's corporate headquarters is in Burlington. LabCorp's Center for Molecular Biology and Pathology in RTP provides laboratory testing services. LabCorp's Center for Occupational Testing in Morrisville provides urine, hair, oral fluid and point-of-collection drugs of abuse testing services. LabCorp Kannapolis is a state-of-the-art biorepository that has the capacity to house 15 million samples. In addition, LabCorp has dozens of specimen collection facilities across the state.

www.labcorp.com

Laudiss Labs LLC (*Winston-Salem*) uses a nanotechnology platform to encapsulate natural organic plant lipophilic and hydrophilic bioactive molecules to develop over-the-counter products for the cosmetic, pharmaceutical and veterinary industries.

North Carolina's academic institutions include four medical schools, three pharmacy schools, two land grant universities and numerous campuses providing specialized programs in such fields as biotechnology, agbiotech, nanotechnology, medical engineering and biomanufacturing.

LCMS Limited (*Durham*) provides LC/MS/MS services for the identification and quantification of compounds such as proteins, biomarkers, peptides and mAb's, specializes in looking for cross contamination from manufacturing processes and provides custom training.

www.lcmslimited.com

LifeScape Biosciences Inc. (*Charlotte*) develops prescription and non-prescription (OTC) pharmaceutical products and medical foods made from FDA-designated "generally regarded as safe" (GRAS) substances.

www.lifescapebio.com

Linguaflex Inc. (*Morrisville*) develops medical device technology to treat obstructive sleep apnea.

www.linguaflex.com

LipoScience Inc. (*Raleigh*) develops and markets clinical diagnostic applications of Nuclear Magnetic Resonance Spectroscopy, including the NMR LipoProfile test which is used to diagnose cardiovascular disease.

www.liposcience.com

Liquidia Technologies Inc. (*Morrisville*) utilizes its PRINT platform technology and GMP manufacturing capabilities to develop precisely engineered particles for improved delivery of biologics and small molecules for vaccine and therapeutic applications.

www.liquidia.com

LotusBioEFx LLC (*Chapel Hill*) develops venous catheters impregnated with nanoscale clusters of metal alloys to inhibit formation of bacterial biofilms.

www.lotusbioefx.com

Lucerno Dynamics LLC (*Raleigh*) is developing a non-invasive device that provides oncologists an analysis of a tumor's response to ongoing treatment early in a patient's treatment course.

www.lucernodynamics.com

Magbio Genomics Inc. (*Raleigh*) develops, manufactures and sells magnetic-based kits for DNA analysis. The company focuses on high throughput nucleic acid purification technologies for DNA sequencing applications.

www.magbiogenomics.com

Mallinckrodt Pharmaceuticals (*Raleigh*) manufactures acetaminophen, the active ingredient in Tylenol, at its pharmaceutical facility in Raleigh. The company also manufactures contrast media used in diagnostic imaging tests.

www.mallinckrodt.com

MARBIONC Development Group LLC (*Wilmington*) is a not-for-profit organization that develops and markets new products and technologies derived from marine and aquatic organisms.

www.marbionc.org

Marble Laboratories LLC (*Winston-Salem*) provides contract testing, process development, laboratory services, and FDA and international regulatory expertise to biotechnology companies.

Martin Protean LLC (*Research Triangle Park*) develops technology for determining the three-dimensional structure of a protein without requiring protein crystals.

www.martin-protean.com

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Companies Ma – Mo



MastCell Pharmaceuticals Inc. (*Raleigh*) develops therapeutic agents for the treatment of allergic disorders.

www.mastcellpharma.com

Maverick Synfuels (*Research Triangle Park*) converts biomass, municipal waste, and natural gas into petroleum-free fuels and chemicals.

www.maverickbiofuels.com

MDx Health Inc. (*Wilmington*) develops gene methylation diagnostic tests for early cancer detection and personalized treatment decisions.

www.mdxhealth.com

Med-El Corporation USA (*Durham*) researches and develops cochlear implant technology. The Durham location manufactures cochlear implants and is also the North American headquarters.

www.medel.com/us

Medicago USA Inc. (*Durham*) develops vaccines based on proprietary manufacturing technologies and Virus-Like-Particles. The vaccines are manufactured using a transient protein expression system in *nicotiana benthamiana*, a close relative of tobacco.

www.medicago.com

Medical Murray (*Charlotte*) is a contract developer and manufacturer of medical devices with a focus on minimally invasive systems, permanent implants, injection molding and specialty materials (e.g. bioabsorbables and nitinol).

www.medicalmurray.com

MedKoo Biosciences Inc. (*Chapel Hill*) manufactures small molecular anticancer reference agents for oncology research and provides drug discovery contract research services.

www.medkoo.com

MEDTOX Diagnostics Inc. (*Burlington*) manufactures and distributes diagnostic drug screening devices.

www.medtox.com

Merck & Co. Inc. (*Durham and Wilson*) manufactures elements of Varivax, a chicken pox vaccine, and other vaccine products in Durham. Merck's Wilson facility produces patented prescription products and performs granulation and tableting operations.

www.merck.com

Mercury Science Inc. (*Raleigh*) develops novel and customized methods of analytical analysis, with expertise in environmental analysis of soil, water and food.

www.mercuryscience.com

Meridian Laboratory Corp. (*Charlotte*) provides CLIA-certified and COLA-accredited patient testing services, as well as testing of water quality for use in dialysis.

www.meridianlaboratory.com

Merz North America Inc. (*Greensboro*) develops and commercializes innovative treatment solutions in aesthetics, dermatology and neurosciences.

www.merzusa.com

Metabolon Inc. (*Durham*) offers biochemical profiling services for the discovery of medical and agricultural biomarkers and pathways associated with disease, and diagnostic products based on those discoveries.

www.metabolon.com

Metrics Inc. (*Greenville*) provides contract development and manufacturing of pharmaceutical products. Services include development of full-scale analytical methods, validation and testing, clinical trial materials and packaging.

www.metricsinc.com

Miacom Diagnostics Inc. (*Research Triangle Park*) develops in vitro diagnostic tests for pathogens causing acute systemic diseases.

www.miacom-diagnostics.com

Micell Technologies (*Durham*) develops combination-product therapies for interventional cardiology. Its products include drug-eluting cardiovascular stents and balloons.

www.micell.com

Microbac Laboratories Inc. (*Wilson and Fayetteville*) offers chemical and microbiological testing services for the agrochemical, pharmaceutical, tobacco and consumer products industries at its GMP-compliant, ISO 17025 accredited (A2LA) laboratory in Wilson. Microbac also offers microbiological testing and sampling services for wastewater, environmental and food safety purposes at its laboratory in Fayetteville.

www.microbac.com

Microban International Ltd. (*Huntersville*) International develops and manufactures antimicrobial technologies used in consumer, industrial and medical products.

www.microban.com

Mimesis Inc. (*Greensboro*) produces tissue-specific extracellular matrices, derived from decellularized tissues, for culturing stem and progenitor cells.

www.mimesisinc.com

Minu LLC (*Pittsboro*) researches and develops ophthalmology products.

MirCan Therapeutics LLC (*Chapel Hill*) is developing and commercializing miR-708 to treat metastatic breast cancer, specifically Triple Negative Breast Cancer (TNBC).

www.mircantherapeutics.com

Mispro Biotech Services Corp. (*Research Triangle Park*) provides contract research, vivarium space, remote animal husbandry services and remote facility management.

www.misprobiotech.com

Molecular Orthopaedics Inc. (*Chapel Hill*) develops gene therapies for osteoarthritis, with applications in human and animal health.

Molecular Toxicology Inc. *(Boone)*

manufactures reagents, assay kits and other products for genetic toxicology research and testing, as well as products for industrial microbiology and quality control.

www.moltox.com

Molecules in Action LLC *(Chapel Hill)*

provides custom molecular modeling, virtual drug screening, molecular simulations and consulting services.

www.moleculesinaction.com

Momentum Research Inc. *(Durham)*

manages and directs Phase I-IV clinical research projects and specializes in cardiovascular clinical trials management.

www.momentum-research.com

MonomerChem Inc. *(Durham)*

provides contract drug development services, including custom synthesis, medicinal chemistry, lead optimization and synthesis of reference standards and metabolites.

www.customsynthesis.com

Monsanto Co. *(Research Triangle Park, Durham, Mount Olive and Kannapolis)*

conducts research and analyzes the physiological traits of plants in the company's corn, soy and cotton research and development pipeline. Monsanto's Grassroots facility in Durham employs a systems biology approach to develop and commercialize biofuel and food crops with increased yield, insect resistance, and stress tolerance. Monsanto's Mt. Olive facility is a crops research station. Monsanto's Center for Food and Nutrition Research in Kannapolis is focused on improving the taste and nutritional quality of fruits and vegetables

www.monsanto.com

MxBiodevices LLC *(Greenville)*

is commercializing a patented injectable nanoscaffold to treat diabetic foot ulcers.

www.mxbiodevices.com

North Carolina is a world leader in vaccine research and manufacturing, with four of the top-five manufacturers operating major production facilities in the state.

Mycorrhiza Biotech LLC *(Burlington)*

develops products and services to improve plant production. They specialize in fungi and allied organisms for diverse applications in agri-business.

www.mycorrhizabiotech.com

Mycosynthetix Inc. *(Hillsborough)*

manages a large collection of fungal isolates and metabolites used in drug discovery and agrochemical and biofuels research.

www.mycosynthetix.com

NanoCor Therapeutics Inc. *(Chapel Hill)*

develops an intracellular genetic protein therapy for the treatment of chronic heart failure.

www.nanocorthx.com

NanoDiagnostic Technology LLC

(Kannapolis) is developing a handheld biomonitoring device incorporating a functionalized nanoparticle and a lateral flow test strip to detect environmental exposure to organophosphate in a blood sample.



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Companies Na – No



NanoMedica LLC (*Winston-Salem*) provides ultrasensitive detection reagents and nanotechnology-based drug discovery services and tools to biopharmaceutical companies as well as DNA and RNA sequencing services.

www.nanomedica.com

NanoOncology (*Chapel Hill*) develops targeted chemotherapeutics to treat cancer using nanotechnology.

www.nanooncology.net

NanoVector Inc. (*Raleigh*) is commercializing a plant virus nanoparticle to develop a family of targeted-delivery, small-molecule cancer drugs.

www.nanovectorinc.com

Natland International Corp. (*Morrisville*) provides contract research synthesis of pharmaceuticals and custom organic chemicals.

www.natland.com

Natural Products & Glycotechnology Research Institute Inc. (*Pittsboro*) develops new methods for the synthesis of oligosaccharides to be used in the development of vaccines or diagnostic tools.

Nature's Pearl Corp. (*Advance*) manufactures nutraceutical and cosmeceutical products from muscadine grape seeds and skins. Its products are manufactured in a cGMP facility and have been studied in clinical trials for efficacy.

www.naturespearlproducts.com

nContact Inc. (*Morrisville*) is developing a cardiac coagulation device for the endoscopic treatment of cardiovascular arrhythmias, including atrial fibrillation.

www.ncontactinc.com

NephroGenex Inc. (*Research Triangle Park*) develops kidney disease therapeutics, with a focus on diabetic nephropathy.

www.nephrogenex.com

Neurocath LLC (*Asheville*) is developing a device to monitor blood sugar levels and administer glucose and insulin.

NeuroGate Therapeutics Inc. (*Chapel Hill*) develops neurological agents to treat neuropathic pain and epilepsy.

NeuroNano Pharma Inc. (*Chapel Hill*) develops drug delivery technologies and nanomedicines that cross the blood brain barrier to reach the central nervous system.

www.neuro10-9.com

NeuroRepair Therapeutics Inc. (*Research Triangle Park*) develops drugs for multiple sclerosis, with a lead compound that shows activity in neuroprotection, remyelination and neuroregeneration.

www.neurorepairx.com

Neuroscience Research Institute of North Carolina (*Winston-Salem*) is a non-profit corporation that conducts NIH-funded research on brain functions, alcoholism, Parkinson's disease, schizophrenia and pain regulations.

www.neurosciencenc.org

NeuroTronik Inc. (*Durham*) develops medical technology for the treatment of acute heart failure syndrome.

Neusentis, a Pfizer Research Unit (*Durham*) discovers, develops and commercializes small-molecule drugs that target ion channels, with a focus on epilepsy, pain and inflammatory disorders.

www.neusentis.com

Nexgen Biosciences (*Raleigh*) is developing next generation anti-infective therapeutics effective against antibiotic-resistant strains of micro-organisms.

www.nexgen-bio.com

NIRvana Sciences Inc. (*Research Triangle Park*) develops and commercializes near-infrared fluorescence dyes for use in medical diagnostics and optical imaging.

www.nirvanasciences.com

Nitta Gelatin NA Inc. (*Morrisville and Fayetteville*) provides food, pharmaceutical and technical gelatin for a variety of uses. Nitta Gelatin's Fayetteville plant produces 3,000 tons of pharmaceutical and food grade gelatin per year.

www.nitta-gelatin.com

North Carolina Clinical Research (*Raleigh*) conducts Phase I-IV trials in a variety of therapeutic areas at its outpatient clinical research facility.

www.nccr.com

North Carolina Microbiology Laboratory (*Lincolnton*) offers microbiology testing services for the indoor air quality and wood products industries. Services include fungal identification, bacterial identification, and product decay resistance characterization.

www.ncmlab.com

Nova Synthetix Inc. (*Chapel Hill*) is developing and commercializing a non-toxic castor plant that produces a unique fatty acid used as a high-value chemical feedstock. They contract with growers and are developing downstream markets for their castor product.

www.novasynthetix.com

Novametrics (*Durham*) develops and manufactures blood coagulation diagnostic products.

www.novametrics.com

Companies No – Oc

Novan Therapeutics (Durham) develops nitric oxide releasing nanoparticle technology, which has therapeutic potential in applications related to immune system response, wound healing and blood pressure regulation.

www.novantherapeutics.com

Novartis Animal Health US Inc. (Greensboro) researches, develops and commercializes animal health products for pet owners, farmers and veterinarians. The Greensboro location is the US headquarters and operations center for its veterinary health business.

www.ah.novartis.us

Novartis Vaccines and Diagnostics Inc. (Holly Springs) produces seasonal flu cell culture vaccine, pre-pandemic and pandemic vaccines.

www.novartisvaccines.com

NovaTarg Inc. (Research Triangle Park) discovers tissue selective AMPK activators which will be developed for the treatment of cancer and metabolic diseases.

www.novataargetherapeutics.com

Novella Clinical, a Quintiles company, (Morrisville and Wilmington) provides CRO support services to emerging oncology and medical device companies of all sizes. Services range from protocol development through final clinical study report.

www.novellaclinical.com

Novo Nordisk Pharmaceutical Industries Inc. (Clayton) manufactures insulin, GLP-1 products and pre-filled delivery devices for the treatment of diabetes.

www.novonordisk-clayton.com

Novocor Medical Systems Inc. (Raleigh) is developing a rapid chilling device for inducing therapeutic hypothermia in cardiac arrest, heat stroke and heavily concussed patients.

www.novocormed.com

Novolipid Inc. (Raleigh) modifies known drugs by appending a proprietary labile fatty acid to create NCE conjugates with a high affinity for albumin. Their initial focus is in oncology applications.

www.novolipid.com

Novozymes North America Inc. (Franklinton) manufactures industrial enzymes, microorganisms and biopharmaceutical ingredients which are used in more than 30 industries including aquaculture, baking, biofuels, brewing, detergents, food products and textiles.

www.novozymes.com

NPBiosciences LLC (Research Triangle Park) develops platforms based on humanized mice to accelerate discovery and development of novel therapies.

www.npbiosciences.com

Nufarm Americas Inc. (Morrisville) manufactures and markets insecticides, fungicides, plant growth regulators and herbicides. This site serves as Nufarm's primary research and development facility in the United States.

www.nufarm.com

Nutra-Pharma Manufacturing Corp. of N.C. (Lexington) manufactures vitamins, supplements and other wellness products.

Nutrasorb NC LLC (Kannapolis) develops and markets a broad range of functionally-enhanced, high-quality ingredients with naturally concentrated, stabilized, and bioavailable phytoactives from fruits and vegetables.

www.nutrasorb.com

Oak-Bark Corp. (Riegelwood and Wilmington) develops and manufactures semi-bulk and bulk chemicals, specializing in organosulfur products. The production facility is located in Riegelwood. The corporate office is located in Wilmington.

www.oak-bark.com

Ocean Therapeutics Inc. (Cary) in-licenses, out-licenses and develops new medicines and drug candidates from marine organisms in a variety of therapeutic areas.

www.oceantherapeutics.com

Ocera Therapeutics Inc. (Durham) is a clinical stage biopharmaceutical company focused on the development and commercialization of proprietary compounds to treat acute and chronic orphan liver diseases.

www.ocerainc.com

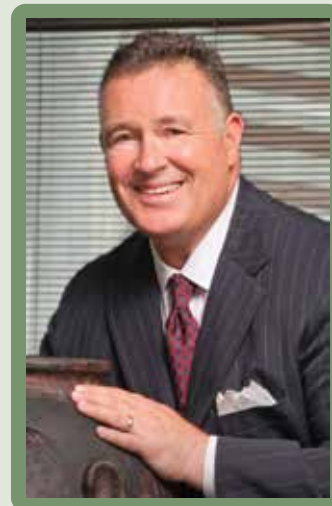


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Ocis Biotechnology Inc. (*Wilmington*) develops nanobio delivery systems with a focus on extracellular matrix regeneration using a proprietary technology and marine chemistries.

www.ocisbiotech.com

Ockham (*Cary*) provides clinical research and management services to the biotechnology/pharmaceutical industry. Services include scientific affairs, regulatory affairs, global clinical operations, feasibility, medical affairs and data management.

www.ockham.com

Ocular Systems Inc. (*Winston-Salem*) provides corneal endothelial cells for transplantation, as well as related supplies and devices. It is an FDA-registered human tissue establishment.

www.ocularsystemsinc.com

Oncoscope Inc. (*Durham*) develops optical imaging systems for guided biopsy of epithelial tissues in the esophagus, colon, lung, cervix and bladder.

www.oncoscope.com

Oncotide Pharmaceuticals Inc. (*Research Triangle Park*) discovers and develops drugs that modulate protein phosphatases to disrupt cancer cells' ability to proliferate and survive.

www.ontotide.com

OnSite Remediation LLC (*Cary*) develops and uses naturally-occurring microbes, mechanical separators, coalescing units and filtration systems for the removal of contaminants from water and soil.

www.onsiteremediation.com

OpAns LLC (*Durham*) provides analytical services to support discovery, preclinical, toxicology and clinical studies.

www.opans.com

Oriel Therapeutics Inc., a Novartis company, (*Durham*) develops respiratory products as generic alternatives to patented drugs for asthma and COPD. It also develops and commercializes pre-metered unit and multi-dose dry powder delivery systems.

OrthoMend Inc. (*Wilmington*) is developing a bio-absorbable polymer reinforced with nano-diamonds for bone fixation in patients who suffer fractures and post-surgical trauma.

www.orthomend.com

Orthovative Technologies (*Winston-Salem*) has developed a nanotechnology-enabled device used to diagnose and minimize back pain.

www.orthovativetechnologies.com

Osmotica Pharmaceutical Corp. (*Wilmington*) specializes in drug-delivery technologies and neurology-based therapies, including a treatment for Parkinson's disease.

www.osmotica.com

Ovation Biotech Inc. (*Raleigh*) produces renewable alkanes from recycled, waste and non food raw materials. Renewable alkanes are a direct replacement for petroleum alkanes, a primary ingredient in fuels and industrial products.

www.ovationbiotech.com

Oxygen Biotherapeutics Inc. (*Morrisville*) develops medical products that efficiently deliver oxygen to tissues in the body that are oxygen-deprived as a result of injury, stroke or other condition.

www.oxybiomed.com

Pace Analytical Services Inc. (*Raleigh and Asheville*) provides environmental testing services specializing in bioassay, metals, wet chemistry, microbiology and organics. The laboratory in Asheville provides inorganic and aquatic toxicity testing services, as well as sampling services for groundwater, wastewater and soil.

www.pacelabs.com

PAREXEL International Corp. (*Durham*) provides drug-development and launch services, including clinical development, integrated advanced technologies, regulatory affairs consulting and commercialization services.

www.parexel.com

Parion Sciences Inc. (*Durham*) develops therapies to treat defects of the innate mucosal defense system in respiratory and ophthalmology diseases.

www.parion.com

Patheon Inc. (*Durham and Morrisville*) provides contract dosage-form development and manufacturing services to the pharmaceutical and biotechnology industries. Patheon's laboratory in RTP offers analytical development services supporting pre-clinical through registration batches.

www.patheon.com

Pathfinder Pharmaceuticals Inc. (*Durham*) specializes in early stage drug discovery, with a focus on cancer therapy.

www.pathfinderpharma.com

Patrin Pharma Inc. (*Salisbury*) develops pharmaceutical products, primarily oral dosage forms in the gastrointestinal, cardiovascular, antiviral, antibacterial and central nervous system areas.

www.patrinpharma.com

Pearl Therapeutics Inc. (*Durham*) develops combination therapies and formulations of inhaled drugs for chronic respiratory diseases such as asthma and COPD.

www.pearltherapeutics.com

Peptagen Inc. (*Raleigh*) develops nasally-administered cytotoxic T-lymphocyte nanoparticle vaccines for the prevention and treatment of pathogenic diseases and cancer, with a lead program in treatment of HIV/AIDS-related illness.

www.peptagen.com

Pfizer Inc. (*Sanford and Durham*) manufactures clinical trial and commercial materials for vaccines such as Prevnar and Meningitec at its facility in Sanford. The Durham location conducts research and development.

www.pfizer.com

PharmaCore Inc. (*High Point*) provides custom organic synthesis, medicinal chemistry and GMP scale-up for drug discovery and development.

www.pharmacore.com

PharmaDirections Inc. (*Cary*) provides scientific and regulatory consulting for drug development and project management with a focus on preclinical, CMC and regulatory services.

www.pharmadirections.com

PharmAgra Labs Inc. (*Brevard*) conducts contract research and development in organic and medicinal chemistry. The company also offers cGMP preparation of drug substances for use in Clinical Trials as well as low volume API manufacturing.

www.pharmagra.com

PharmaLogika Inc. (*Willow Springs*) develops, manufactures and markets prescription medication and medical devices primarily for neurological diseases, as well as over-the-counter medications and supplements for humans and animals.

www.pharmalogika.com

Pharm-Olam International (*Research Triangle Park*) provides Phase I-IV clinical research services.

www.pharm-olam.com

Phenogen Sciences Inc. (*Charlotte*) provides predictive testing and risk assessment tools that help physicians proactively manage patient health.

www.phenogensciences.com

Physcient Inc. (*Durham*) develops new surgical tools designed to decrease tissue damage during surgery.

www.physcient.com

Physicians Laboratories (*Kernersville*) produces and distributes Revival Soy protein products and diet products.

www.soy.com

PhytoChem Pharmaceuticals Inc. (*Cary*) is developing a prescription medical food for the treatment of metabolic processes and inflammation involved in breast cancer recurrence.

www.phytochem.com

Phytonix Corp. (*Asheville*) develops photosynthetic organisms (such as cyanobacteria) that directly secrete fuels and chemicals.

www.phytonix.com

PhytoPharmacon Inc. (*Garner*) derives natural ingredients from botanical sources and specializes in development, from agronomy through pilot scale processing, and high-volume supply of natural products for the food and cosmetic industries.

www.phytopharmacon.com

Piedmont Biofuels (*Pittsboro*) is a community scale biodiesel producer, which makes and distributes fuel, provides laboratory testing to other biodiesel producers, and offers consulting services to the industry.

www.biofuels.coop

Piedmont Pharmaceuticals LLC (*Greensboro*) develops and licenses human health and animal health therapeutics with a focus on parasitology and drug delivery systems.

www.piedmontpharma.com

Pique Therapeutics Inc. (*Durham*) develops therapeutic vaccines for the treatment of cancer.

www.piquetherapeutics.com

Pisgah Labs Inc. (*Pisgah Forest*) manufactures active pharmaceutical ingredients on a contract basis. Pisgah Labs' cGMP facility includes an aseptic manufacturing suite.

www.pisgahlabs.com

Plant Health Care Inc. (*Raleigh*) develops technologies to promote plant health and increase crop yields.

www.planthealthcare.com

Plureon Corp. (*Winston-Salem*) develops a technology platform based on pluripotent stem cells extracted from amniotic fluid and placenta. These cells may be used in regenerative medicine and other therapies.

www.plureon.com

Polyzen Inc. (*Apex*) is a contract manufacturer that designs, develops, and manufactures polymer based medical devices.

www.polyzen.com

Powered Research LLC (*Research Triangle Park*) provides contract research services to life sciences companies using established and novel nonclinical models.

www.poweredresearch.com

POZEN Inc. (*Chapel Hill*) develops products for the treatment of acute and chronic pain, and pain-related conditions.

www.pozen.com

PPD Inc. (*Wilmington, Durham and Morrisville*) provides drug discovery, development and lifecycle management services to pharmaceutical, biotechnology, medical device, academic and government organizations.

www.ppd.com

PRA International Inc. (*Raleigh*) provides clinical research and trial services for all phases of clinical development.

www.praintl.com

More than 80 agricultural biotechnology companies have put down roots in North Carolina, including international giants BASF, Bayer CropScience, Syngenta, Novozymes and Monsanto.

Precision BioSciences Inc. (*Durham*) develops technology to produce custom, genome-editing enzymes for human health and biological research. The technology is called Directed Nuclease Editor.

www.precisionbiosciences.com

Precision PlantSciences Inc. (*Durham*) develops Precision Biosciences' technology, called Directed Nuclease Editor, used to site-specifically insert or remove traits at a user-defined location in the genome of row crops, biofuel feedstocks, and other plants.

www.precisionbiosciences.com

Premitec Inc. (*Raleigh*) is a biomedical research and development company that focuses on development of flexible neural interfaces, implantable biosensors, and packaging solutions for these devices.

www.premitec.com

Proactive Genomics LLC (*Winston-Salem*) is developing a genetic test for men to assess their genetic risk for prostate cancer.

www.proactivegenomics.com/news.html

Proteovations (*Research Triangle Park*) provides services and new technologies for protein expression research, biomarker discovery and diagnostics, including protein identification and quantitation, shotgun proteomics and protein profiling.

www.proteomicsanalysiservices.com

ProteoVec LLC (*Raleigh*) provides research grade gram to kilogram quantities of proteins and antibodies (therapeutic and diagnostic) and vaccines.

www.proteovec.com

Purdue Pharmaceuticals LP (*Wilson*) produces and packages oral solid dosage tablets and is a distribution center for prescription products.

www.purduepharma.com

QOL Medical LLC (*Raleigh*) acquires, grows and commercializes existing or approved and complementary new metabolic disease and pediatric gastroenterology products.

www.qolmed.com

According to Battelle, North Carolina is third in the nation in the size of its life science sector. More than 66,000 North Carolinians have bioscience jobs now, and they earn an average \$82,000+ a year.

QPS Holdings LLC (*Research Triangle Park*) specializes in hepatocyte research, drug metabolism, drug transporter services and in vitro drug-drug interactions.

www.qps.com

Qualiber Inc. (*Chapel Hill*) develops nano-technologies to solve drug delivery challenges for siRNA, small molecules and gene-based therapeutics, with a focus on cancer, hepatitis and liver diseases.

www.qualiberinc.com

Qualicaps Inc. (*Whitsett*) manufactures empty two-piece capsules (gelatin and hypromellose) and encapsulation equipment under cGMP regulations for use by pharmaceutical, OTC and dietary-supplement manufacturers.

www.qualicaps.com

Qualitest Pharmaceuticals Inc. (*Charlotte*) manufactures generic pharmaceuticals. The company's solid-dose manufacturing facility in Charlotte also includes laboratory space for quality control and R&D.

www.qualitestrx.com

Quality Chemical Laboratories

(*Wilmington*) offers contract analytical and microbiological testing services to pharmaceutical companies, including raw-material and finished-product testing, stability testing, method development and validation.

www.qualitychemlabs.com

Qualyst Transporter Solutions LLC

(*Durham*) develops and commercializes cell-based drug toxicity-testing products used in pharmaceutical development, based on its proprietary hepatocyte technologies.

www.qualyst.com

QuarTek Corp. (*Greensboro*) develops nanotechnology processes with applications in antimicrobials, advanced textiles, nano-sensors, diagnostics and biofuels. The company also provides accelerator services for startup nanotechnology companies.

www.quartekcorp.com

Quintiles (*Durham and Morrisville*) is a contract research organization that provides clinical- and product-development services for pharmaceuticals, biosimilars and medical devices.

www.quintiles.com

Radiant Neurosciences LLC

(*Durham*) develops medicines to treat neurodevelopmental disorders in children.

Regado Biosciences Inc. (*Durham*) discovers and develops injectable antithrombotics, including anticoagulants and antiplatelet agents.

www.regadobiosciences.com

Research Triangle Park Laboratories Inc.

(*Raleigh*) provides contract analytical laboratory services for environmental, pharmaceutical, biotechnology, dietary supplements and manufacturing industries.

www.rtp-labs.com

RF Wastewater (*Raleigh*) focuses on biological wastewater treatment, using lignocellulosic materials as biofilm media for activated sludge system retrofits and upgrades.

www.rfwastewater.com

Rheomics Inc. (*Chapel Hill*) is developing technologies to measure fluid viscosity and cell membrane rigidity. These technologies will be incorporated into biomedical instruments designed to diagnose clotting disorders and cancer metastasis.

www.rheomics.com

Rho (*Chapel Hill*) provides clinical development and contract research services to the biotechnology, pharmaceutical and medical-device industries.

www.rhoworld.com

Ridge Diagnostics Inc. (*Research Triangle Park*) markets a blood test as an aid for diagnosing depression. Other products are being developed for treatment monitoring and for diagnosis of other neuropsychiatric diseases.

www.ridgedx.com

Rockwell Automation Life Sciences (Cary) provides automation control, process optimization and execution systems for manufacturers. Rockwell's Cary location is the headquarters for the Americas life sciences division.

www.rockwellautomation.com/industries/lifesciences

RTI Health Solutions (Research Triangle Park) provides consulting and research services to help pharmaceutical, biotechnology, diagnostics and medical-device companies achieve their product development and market access objectives.

www.rtihealthsolutions.org

RTI International (Research Triangle Park) is a nonprofit organization that provides research and technical services to governments and businesses, including drug discovery and development, analytical chemistry, and medical device and diagnostics research.

www.rti.org

RTI Surgical Inc. (Greenville and Raleigh) develops and provides surgical implants, including biologic, metal and synthetic implants.

www.rtix.com

SafeRay Spine LLC (Durham) develops medical imaging devices that may help to reduce radiation exposure and improve the safety of fluoroscopy procedures.

lessray.com

Salix Pharmaceuticals Inc. (Raleigh) develops and markets prescription pharmaceutical products for the treatment of gastrointestinal diseases.

www.salix.com

Salzburg Therapeutics Inc. (Yadkinville) is developing systems that deliver activated forms of anti-cancer drugs, nucleic acid drugs, and nanoparticles directly to cancer cells.

www.sztiopharm.com

Sandoz Inc. (Wilson) manufactures oral-dosage generic pharmaceuticals.

www.us.sandoz.com

Sanesco International Inc. (Asheville) develops clinical tools for healthcare providers, such as neuroendocrine analytical testing, nutritional support formulas, and patient-centered clinical review. The NeuroLab division conducts research and development of in vitro diagnostic tools.

www.sanescohealth.com

Sapheon Inc. (Morrisville) develops medical devices and technology to treat vascular diseases.

www.sapheoninc.com

Scielntl LLC (Greensboro) develops computation technologies to screen chemicals and target databases in order to identify and optimize leads for preclinical candidates. Scielntl's technologies can also be used to discover small molecule enzyme activators.

www.Scielntl.com



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Scientific Analytical Institute Inc.

(Greensboro) conducts environmental, indoor-air-quality, forensic and materials testing.

www.sailab.com

SciKon Innovation Inc. (Research Triangle Park)

develops medical and pharmaceutical biotools using tissue-engineering principles to include cell ecosystems, living thermodynamics, nutrient transport and delivery, and "cell systems" approaches.

www.scikoninnovation.com

Scioderm LLC (Durham) develops drugs to treat skin diseases with high unmet need.

www.sderm.com

SciOme LLC (Research Triangle Park) develops bioinformatics and chemoinformatics solutions and provides consulting services.

www.sciome.com

Sciteck Inc. (Fletcher) provides forensic drug testing services and diagnostic products. Sciteck develops, manufactures and sells products for biotechnology, urinalysis, clinical chemistry, toxicology, pharmaceuticals, treatment and safety applications.

www.sciteck.org

SCYNEXIS Inc. (Durham) develops proprietary technologies centered on a Phase II Invasive Fungal Infection therapeutic and a Phase II HCV therapeutic. SCYNEXIS also has other compounds in development with animal health partners.

www.scynexis.com

Seachaid Pharmaceuticals Inc. (Durham) discovers and develops human therapeutics.

www.seachaid.com

Selexys Pharmaceuticals Corp. (Morrisville) develops therapeutics for the treatment of inflammation, thrombosis and metastasis across a broad range of severe diseases.

www.selexys.com

SenGenix Inc. (Chapel Hill) develops point-of-care blood diagnostic tests using fluorescently responsive sensors.

www.sengenix.com

SePRO Research & Technology Campus (Whitakers) acquires, develops, manufactures, and markets products for aquatics and horticulture. SePRO's research and technology campus in Whitakers is the primary research and development site for the company.

www.sepro.com

Sequenom Laboratories (Morrisville) develops and provides clinical diagnostic testing and genetic testing services for prenatal and eye conditions.

www.sequenom.com

Serum Source International Inc. (Charlotte) supplies animal serum for cell culture research, contract research laboratory use and bioprocessing development.

www.serumsourceintl.com

Shoaf Scientific Consultants Inc. (Lexington) provides consulting and research services for clients developing new methods for manufacturing biological and biochemical sensors and other biomedical products.

www.shoafbiochem.com

Shure Foods Inc. (Greenville) produces cold-structured crab by treating the uncooked crab meat with a protein binding agent.

www.shurefoods.com

SipcamAdvan (Durham) develops and manufactures herbicides, pesticides, fungicides and biocides.

www.sipcamadvan.com

SIRGA Advanced Biopharma Inc. (Research Triangle Park) discovers and develops small-molecule drugs to treat HIV and other drug-resistant infectious diseases.

www.sirgaab.com

Smart Perfusion LLC (Denver) is developing a device to expand the time an organ is viable for transplantation as well as associated metrics that validate viability.

www.smartperfusion.com

SmartFlow Technologies Inc. (Apex) provides filtration, separation and purification for biotechnology, biofuels, biopharmaceutical processing, animal healthcare, dairy processing, enzyme manufacturing and wastewater.

www.smartflow-tech.com

SmartGene Inc. (Raleigh) provides web-based software solutions for the management, analysis and interpretation of genetic sequences, to identify and characterize bacteria, fungi and viruses. Customers include diagnostic labs, medical centers and sterile manufacturers.

www.smartgene.com

Smithers Viscient LLC (Snow Camp)

provides environmental testing services for the pharmaceutical, veterinary, agriculture, chemical and personal-care industries. The company's lab in Snow Camp conducts avian and wildlife toxicology testing.

www.smithersviscient.com

Solstas Lab Partners (Greensboro, High Point and Wilmington) provides medical laboratory testing services to hospitals, nursing homes, home health, clinics, urgent-care facilities and other businesses.

www.solstas.com

Southcot Inc. (Research Triangle Park)

produces highly purified carotene standards isolated from natural products and prepares biological reagents for the detection of hypoxia at the cell level in normal and malignant tissues.

www.carotenestandards.com

Southeastern Laboratories Inc. (Goldsboro)

provides research and laboratory support to water and wastewater-treatment companies. SEL's analytical services include microbiological and chemical testing.

www.selaboratories.com

Southern Research Institute - Advanced Energy & Transportation Technologies

(Durham) provides research and analytical services and facilities to government and commercial clients in energy, fuel and transportation technologies.

[www.southernresearch.org/
environment-energy/north-carolina-
operations-advanced-energy-and-
transportation-technologies](http://www.southernresearch.org/environment-energy/north-carolina-operations-advanced-energy-and-transportation-technologies)

SOV Therapeutics Inc. (Morrisville) develops therapeutic treatments, with a focus on oral testosterone replacement therapies for adult men.

www.sovtherapeutics.com

SoyMeds Inc. (Davidson) is developing a seed-based expression platform that enables production of protein-based targets that can be used to diagnose and treat disease and address other unmet needs in the healthcare industry.

www.soymeds.com

SP3 Polymer (Durham) provides contract research services, custom synthesis of PEGylated products and chemical derivatives.

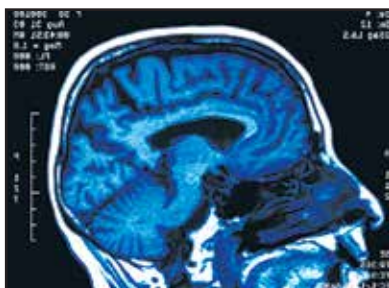
www.sp3polymer.com

Sprout Pharmaceuticals Inc. (Raleigh) is developing a Phase III compound to treat hypoactive sexual desire disorder.

www.sproutpharma.com

Sterigenics (Charlotte and Haw River) provides gamma radiation sterilization and ethylene oxide sterilization for medical and pharmaceutical products.

www.sterigenics.com



Every Great Advance In Science Has Issued From A New Audacity Of Imagination.

— JOHN DEWEY

And it is the imagination which is the catalyst for the interest and enthusiasm we have for our clients and their discoveries. Science is our love but our passion lies in the practice of law which protects these discoveries.



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Companies St – Th

Stiefel, a GSK company, (*Research Triangle Park*) develops skin-care therapies. The company's primary research and development facility is in RTP.

www.stiefel.com

Structure Medical Inc. (*Mooresville*) is a contract manufacturer of orthopedic medical devices, including implantable orthopedic fracture fixation and spinal instrumentation products.

www.structuremedical.com

Suncare Research Laboratories LLC

(*Winston-Salem*) provides services to sunscreen and dermatological product manufacturers, including evaluation of sunscreen SPF and UVA protection.

www.suncarelab.com

SureMilk LLC (*Research Triangle Park*)

develops products to diagnose and treat low caloric content in breast milk.

www.suremilk.com

Sustainable Ethanol Technologies LLC

(*Waxhaw*) is commercializing low-cost, sustainable, cellulosic ethanol production.

www.sustainable-ethanol.com

Symmetry Biosciences Inc. (*Research Triangle Park*)

provides contract research and specialized chemistry services to the biotech, pharmaceutical, medical device, agrochemical and fine chemical industries.

www.symmetrybiosciences.com

Synchrony Labs (*Durham*) is an AAALAC-accredited large-animal, preclinical contract research organization. It provides preclinical testing services, specializing models for safety, toxicology and efficacy studies.

synchronylabs.com

Synereca Pharmaceuticals Inc. (*Chapel Hill*) develops orally active drugs that restore or increase the effectiveness of existing antibiotics.

www.synereca.com

Syngenta Biotechnology Inc. (*Research Triangle Park*) works in plant biotechnology to develop insect control and drought tolerance. Research Triangle Park is the company's central location for biofuels product development and includes the Advanced Crop Research Lab.

www.syngentabiotech.com

Syngenta Crop Protection Inc. (*Greensboro*) develops and markets weed-, insect- and disease-control products.

www.syngenta-us.com

Synpac Inc. (*Durham*) is developing a drug for the treatment of Pompe disease.

SynteractHCR Inc. (*Morrisville*) provides customized, full-service Phase I through IV clinical development services internationally across multiple therapeutic areas.

www.SynteractHCR.com

Synthon Pharmaceuticals Inc. (*Research Triangle Park*) develops and manufactures biological compounds such as antibodies and other human therapeutic proteins. Key therapeutic areas include oncology and multiple sclerosis.

www.synthon.com

Synthonix Inc. (*Wake Forest*) designs, manufactures and markets molecules to aid in drug discovery.

www.synthonix.com

T3D Therapeutics Inc. (*Research Triangle Park*) is developing and commercializing an oral therapy for Alzheimer's disease that has the potential to improve multiple AD pathologies with one treatment.

www.t3dtherapeutics.com

TAB Clinical Trials (*Cary*) provides global clinical trial support from pre-IND stage of development to post-market approval for drugs and devices.

www.tabclinical.com

Tandem Labs Inc. (*Durham*) provides bioanalytical and immunoanalytical services, specializing in GLP-compliant LC/MS/MS bioanalytical services for all phases of drug discovery and development.

www.tandemlabs.com

Targacept Inc. (*Winston-Salem*) develops neuronal nicotinic receptors (NNRs) therapeutics for diseases and disorders of the nervous system.

www.targacept.com

TearScience Inc. (*Morrisville*) develops and sells medical devices that identify and treat evaporative dry eye.

www.TearScience.com

Technology Crops International (*Winston-Salem*) designs, evaluates, and develops specialty plant-derived oils for food, chemical, dietary supplement and personal care uses. The company manages the supply chain from soil to oil, providing traceability, consistent demand and quality control.

www.techcrops.com

Teleflex Medical (*Research Triangle Park and Asheboro*) designs, manufactures and distributes medical devices, surgical instruments and disposable medical products. Its facility in Asheboro manufactures disposable catheters and related products for critical and cardiac care.

www.teleflex.com

Tem Systems Inc. (*Durham*) is the developer and manufacturer of the ROTEM hemostasis analyzer.

www.roteminc.com

Tengion Inc. (*Winston-Salem*) develops and manufactures human neo-organs and neo-tissues for regenerative medicine, using the Autologous Organ Regeneration Platform.

www.tengion.com

Tergus Pharma LLC (*Durham*) provides complete product development and consulting services for topicals and semi-solid dosage forms to the pharmaceutical industry, including topical product development, drug diffusion (IVRT) and clinical supplies (Phase I-IV).

www.terguspharma.com

TerraStar Energy (*Lumberton*) provides turn-key systems to reduce waste and convert it to biogas, electricity, liquid fuels and solid and liquid fertilizers. Systems include anaerobic digestion, gasification, pyrolysis and boilers.

www.terrastarenergy.com

Teva Pharmaceuticals (*Greensboro*) manufactures Vicks and other OTC products.

www.tevagenics.com

The Hamner Institutes for Health Sciences (*Research Triangle Park*), a nonprofit research organization, focuses on research in chemical and drug safety and works with academic, industry and government partners to bring improved medicines from bench to bedside.

www.thehamner.org

TIRF Labs (*Cary*) develops, manufactures and markets a broad range of products based on total internal reflection fluorescence (TIRF), including add-on TIRF accessories for microscopy and spectroscopy, TIRF biosensors and fluorescence illuminators.

www.tirf-labs.com

Toxicology Services Inc. (*Chapel Hill*) works with small and mid-sized pharmaceutical companies and CROs to plan, conduct and summarize toxicology studies, including PK/ADME studies.

www.toxicologyservices.net

Trana Discovery Inc. (*Cary*) provides a proprietary drug discovery technology platform that enables its partners to discover new treatments of bacterial, viral, and fungal infectious diseases in crops, animals and humans.

www.tranadiscovery.com

TransEnterix Inc. (*Morrisville*) designs and develops medical devices for minimally invasive surgery, including a surgical system called SPIDER, which enables surgeons to perform an operation through a single site access.

www.transenterix.com

TransTech Pharma Inc. (*High Point*) develops and commercializes therapeutics for human diseases of the central nervous and cardiovascular systems, as well as diabetes, obesity and cancer.

www.ttpharma.com

TransViragen Inc. (*Durham*) provides in vivo discovery research services, including a full suite of genetically modified mouse and rat model services, from custom-model generation to phenotyping.

www.transviragen.com

TransWorld Heart Corp. (*Monroe*) develops medical devices for the management of heart disease.

[www.transworldmed.com/
transworldheart/](http://www.transworldmed.com/transworldheart/)

Treyco Environmental Solutions (*Wilson*) created and manufactures a patented enzymatic degreaser product called TPP1.

www.treyco.net

Triad BioGreen Technologies Inc. (*Greensboro*) develops technology to produce and market algae-based biofuels.

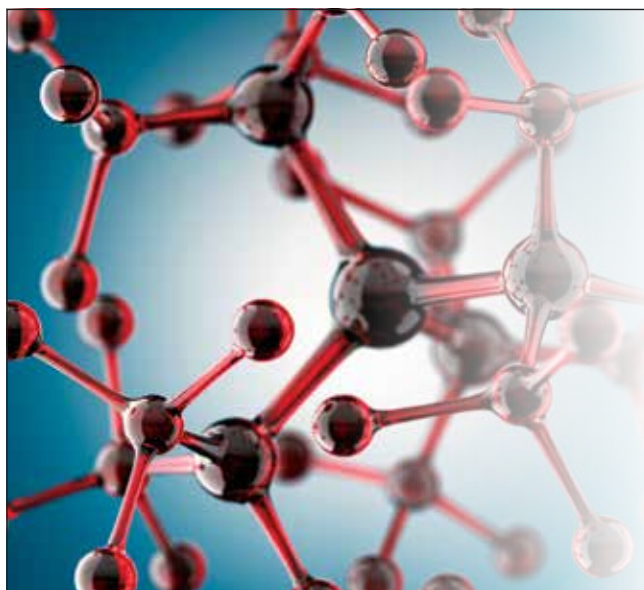
www.triadbiogreen.com

Triangle Biofuels Industries Inc. (*Wilson*) produces biodiesel from virgin and waste vegetable oil, including locally-sourced soybean, canola, camelina and corn oils.

www.trianglebiofuels.com

Triangle BioSystems International (*Durham*) develops, produces, markets and supports biomedical analog signal processing products that advance the research and performance capabilities of its customers in the neurophysiology and ultrasound marketplace.

www.trianglebiosystems.com



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Triangle Compounding Pharmacy (*Cary*) is an FDA Registered Outsourcing Facility (cGMP) and PCAB Accredited pharmacy which specializes exclusively in compounding, including sterile compounding of medications, and a variety of formulations for clinical trials.

www.trianglecompounding.com

Triangle Research Labs LLC (*Research Triangle Park*) specializes in hepatocyte production for use in research focused on drug metabolism, drug-drug interactions, drug transporters and hepatotoxicity.

www.triangleresearchlabs.com

TriboFilm Research Inc. (*Raleigh*) develops low-friction, thin-film coating and lubrication platforms for medical devices and for the aerospace and marine industries.

www.tribofilmresearch.com

Tryton Medical Inc. (*Durham*) develops stent systems for the treatment of coronary artery bifurcation lesions.

www.trytonmedical.com

TyraTech Inc. (*Morrisville*) develops natural pesticides that are safe for humans and animals, by targeting invertebrate-specific receptors.

www.tyratech.com

UCB Biosciences Inc. (*Raleigh*) develops therapeutics for the treatment of severe, life-threatening neurological and inflammatory diseases, including epilepsy, Parkinson's disease, rheumatoid arthritis, Crohn's disease, psoriatic arthritis, lupus and osteoporosis.

www.ucb.com

United Therapeutics Corp. (*Research Triangle Park*) develops and commercializes products to treat cardiopulmonary diseases, infectious diseases and cancer.

www.unither.com

Vascular BioSciences Inc. (*Durham*) is a biopharmaceutical company developing solutions for difficult-to-treat cardiovascular and inflammatory diseases.

www.vascularbiosciences.com

Vascular Pharmaceuticals Inc. (*Chapel Hill*) develops and commercializes therapeutic products to treat secondary complications of diabetes.

www.vascularpharma.com

Venafair LLC (*Asheville*) develops vascular agents for the treatment of varicose veins.

Verdesian Life Sciences LLC (*Cary*) develops agricultural products with a focus in plant health, inoculants, seed treatment and nutrition.

www.vlsci.com

Vertellus Specialties Inc. (*Greensboro*) manufactures specialty chemicals for the agriculture, nutrition, pharmaceutical, medical and personal care markets.

www.vertellus.com

Viamet Pharmaceuticals Inc. (*Durham*) discovers and develops small-molecule compounds that target metalloenzymes in infectious disease, oncology and crop protection.

www.viamet.com

ViiV Healthcare (*Research Triangle Park*) in conjunction with parent companies GlaxoSmithKline and Pfizer, develops drugs to treat HIV infection and disease.

www.viivhealthcare.com

Vijaya Pharmaceuticals LLC (*Research Triangle Park*) provides medicinal and synthetic organic chemistry services to the pharmaceutical and allied industries.

www.vijayapharma.com

ViraSource LLC (*Research Triangle Park*) propagates and purifies BSL-2 viruses and provides animal models of viral infections and anti-viral immune responses.

www.virasource.com

WanGene Diagnostics Inc. (*Research Triangle Park*) is developing lateral-flow immunoassays and molecular diagnostic products.

West Pharmaceutical Services Inc. (*Kinston*) manufactures syringe plungers and IV system components, using compression molding, at its ISO-certified plant in Kinston.

www.westpharma.com

WIL Research (*Hillsborough*) provides contract toxicologic pathology and histology services.

www.wilresearch.com

Wilmington Pathology Associates (*Wilmington*) offers surgical pathology and cytopathology diagnostic services. The company is part of Solstas Lab Partners.

www.wilmingtonpathology.com

Wilmington Pharmaceuticals LLC (*Wilmington*) develops fast-dissolving dosage forms for established medicines.

www.wilmingtonpharma.com

Xenobiotic Detection Systems Inc. (*Durham*) offers patented bioassays to facilitate assessment of environmental and human health risks.

www.dioxins.com

X-in8 Biologicals Corp. (*Chapel Hill*) develops technologies to prevent and treat ischemia reperfusion injury in the context of organ transplant, myocardial infarction and stroke.

www.x-in8.com

Yasoo Health Inc. (*Raleigh*) develops condition-specific nutraceutical products consisting of essential nutrients and natural compounds.

www.yasoo.com

Yukon Medical LLC (*Morrisville*) designs and manufactures pharmaceutical drug preparation and delivery devices with a focus on drug reconstitution.

www.yukonmedical.com

Zenalux Biomedical Inc. (*Durham*) uses biophotonics to develop diagnostic tools, including an optical system for the clinical detection of cancer.

www.zenalux.com

Zen-Bio Inc. (*Research Triangle Park*) provides contract research services and human tissues and cells for drug discovery, especially in the area of human metabolic disease and dermatology.

www.zen-bio.com

Zinfandel Pharmaceuticals Inc. (*Durham*) uses pharmacogenetics to improve prediction of risk for Alzheimer's disease and facilitate the development of effective therapies.

Zoetis Inc. (*Durham and Maxton*) develops and manufactures vaccines and medications for poultry health. The company is a supplier of in-ovo vaccination technology.

www.zoetis.com

Zoion Pharma Inc. (*Raleigh*) develops drugs for veterinary disorders. Zoion's lead product is an epithelial sodium channel blocker compound to treat canine keratoconjunctivitis sicca (KCS) or dry eye.

Zor Pharmaceuticals LLC (*Wilmington*) develops and commercializes therapies for the treatment of cancer, especially pancreatic cancer.

www.zorpharma.com

Zylera Pharmaceuticals LLC (*Research Triangle Park*) develops, acquires and commercializes prescription products and dietary supplements, specifically for pediatric and women's health.

www.zylera.com

Eboo Pharmaceuticals, started in Durham with funding and other support from NCBIotech, was one of three U.S. biopharma companies invited into the Partnering Program of the Michael J. Fox Foundation for Parkinson's Research — and Eboo got \$1.5 million in the process.



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quarter



North Carolina Biotechnology Center



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- Business Support
- Workforce & Education

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North Carolina is known for its rich agricultural history, and Bayer CropScience is committed to cultivating the industry's future. Our role in the biotechnology sector focuses on improving agricultural crops such as cotton, canola, soybean and wheat. Partnerships with local universities and companies are what have made a North Carolina address so rewarding for Bayer CropScience.

ALSTON & BIRD LLP

The futures of the growing biotechnology community and the state's economy are intrinsically linked. The industry's expansion and development means more jobs, significant scientific advancements and an improved local quality of life. Alston & Bird harbors the expertise and drive to support biotechnology and its continued success in North Carolina.



BioNetwork has been an invaluable source of information and business support. The employees are knowledgeable, easy to work with and eager to be helpful. As an entrepreneur and product formulator, I am grateful for their diverse service offerings, proactive approach to community entrepreneur involvement and follow-through in projects vital to my business. — Laralyn RiverWind, Native Touch CEO

GRIFOLS

Grifols is a global health care company with a 70-year legacy of improving people's health and well-being through the development of life-saving plasma medicines, diagnostic systems and hospital pharmacy products. Grifols employs 2,300 people throughout North Carolina, including a regional corporate headquarters in Research Triangle Park, five plasma donation centers across the state and a manufacturing facility in Clayton, where biological medicines derived from human plasma are developed and produced to treat rare, chronic diseases such as a neurological disorder, immune deficiencies, hemophilia and genetic emphysema. www.grifols.com



Biotechnology research at North Carolina Agricultural and Technical State University applies our historic strengths in agriculture, engineering and technology with an interdisciplinary focus on today's great challenges in animal and plant science, environmental science and human health. Aggie researchers working in fields as varied as food science, bioengineering and biomedical research are creating new knowledge and developing a diverse new generation of scientists, engineers and researchers.

Wake Forest[™] Innovations

Wake Forest Innovations simplifies and accelerates the journey from discovery to commercialization so that important scientific discoveries can become life-improving realities. We help transform the ideas, discoveries and inventions of our scientists and clinicians into valuable proprietary technologies and license these to industry. We help industry to research and develop its own discoveries by providing open access to the intellectual, clinical and research capabilities of Wake Forest. Through open innovation with industry we improve health by transforming ideas, discoveries and inventions into valuable health care products.



GSK is one of the world's leading research-based pharmaceutical and healthcare companies. We are committed to improving the quality of human life by enabling people to do more, feel better and live longer. We also are deeply committed to supporting the communities where we operate and where our employees live, including Research Triangle Park, where we or a legacy company have been since 1971.



BRITE is the Biomanufacturing Research Institute and Technology Enterprise at North Carolina Central University. Completed in 2008, the center was launched with more than \$20 million in economic development funds provided by the Golden LEAF Foundation. BRITE scientists perform research in key areas of drug discovery and biomanufacturing. Working alongside them are BRITE students — in B.S., M.S. and Ph.D. programs — developing the research and laboratory skills that bioscience industries need. Our graduates are prepared from "Day One" to thrive in the workplace and research lab.

WEXFORD SCIENCE+TECHNOLOGY A BioMed Realty Company

Wexford Science & Technology, a BioMed Realty company, is focused on building powerful Knowledge Communities for the North Carolina life science industry. Combining flexible spaces, access to university infrastructure and resources, and valuable business services and connections, these collaborative places provide researchers, entrepreneurs and growing companies a place to move innovations from the laboratory to the marketplace.



North Carolina Biotechnology Center

North Carolina's strong science, thriving industry and low business costs offer biotechnology companies a unique opportunity for growth. NCBiotech's mission is to provide long-term economic and societal benefits to North Carolina through support of biotechnology research, business, education and strategic policy statewide.



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